anitiz	ed Copy	Approved for Release 2010/03/18 : CIA-RDP80T01137A000300050003-0	25X1
•		g wa - Crawana - Bawa d	
••	,	* 	
		2 December 1966	
		Memorandum For the Record.	
		By LDX was sent to	25>
	•	1. The following-message was sent to was s	
	•	coordinated with Mr. Lundahl:	25X1
		" That NPIC conduct briefings	
			,
		etc.) as suggested by Systems and Good	· 25X1
		troduction to Capability of Sensor Systems and troduction to Capability of Sensor Systems Recce. Illustrations of the Peaceful Uses of Satellite Recce.	
		Obviously it would be possible to expand or tailor the briefings to the specific interests of the visitor.	
		briefings to the specific involves agreets of	
		"Together with CIA/IAD we could cover aspects of the following: Geology, Agriculture, Forestry Management, the following: Jord Use, Urban Area Analysis, Mapping,	
		the following: Geology, Agriculture, Following, Mapping, Natural Disasters, Land Use, Urban Area Analysis, Mapping, Natural Disasters, etc. Many of the photo interpreters	
•	•	Natural Disasters, Land Use, Orban Area Analysts, The Natural Disasters, Land Use, Orban Area Analysts, Land Use, Orban Area Analysis,	
		have experience and/or degrees in the forestry.	·
		"Attached is a sample listing of some briefing boards	
•		currently on hand.	;
	•	no additional info please call me."	
			25>
		2. This was also discussed with package on peaceful uses	. 207
•		was agreed that a new briefing package of should be developed. A project will be established to should be developed. A project will be established to	. :
		should be developed. A project will be established initiate action to provide a much broader scope of coverage. A survey of all that has been done in the various fields	
		A survey of all that has been done in one mentioned above will also be conducted.	
		mentioned doors	4
			1
		:	2 <u>5X1</u>
		Assistant for Operations, NPIC	i ·
		·	
		·	•
•			·
		•	25X1
	•		
		CEOUP Excluded from automatic downer-acing and doctaralisation More activation CEOUP CECUP COUP COUP	
	-	declassification declassification	
•			-
	J.		

TOP SECRET RUFF

WORKING PAPER-

20,000 Acre Forest Fire, Huslia Area, Alaska

Evaluation of US Dependents, Cyprus

Recreation or Industry Lake Baikal Area, USSR

Land Management in Israel

Land Mismanagement, USSR

Tornado Damage, Wichita Falls, Texas

Hurricane Prone Area, Florida, USA

Landslide Near Samarkand, USSR

Dam Break Results Near ISSYK, USSR

Anadyr River Flood, Far East Siberia, USSR

Industrial Fires, Igarka, USSR

Siberian Forest Fires, USSR

(OVER)

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Areas of Medvezhij Glacier Advance and Epicenter 113

15 January 1965 Test Area, Semipalatinsk Nuclear Weapons Proving Ground, USSR

16 Epicenter, 11 November 1964, Volcano Shiveluch, Kamchatka, USSR

Earthquake Damage, Tashkent, USSR

Earthquake Area, Ho-Pei Province, China

Merchant Ship Convoy (Westbound) East Siberian Sea

Icebound Soviet Northern Sea Route Naval Convoy, Pevek, USSR

Greenland Iceberg Sources

Excluded with automatic daysers sing and declassification

TOP STORE RUFF

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COMMITTMENTS BY NPIC

NPIC has been committed only to providing, The Civilian Agency Teams under GIMRADA supervision, with following services:

- 1. Orientation Instruction This would probably consist of:
 - *a. Briefing on applicable camera or other imageryproducing sensor systems.
 - b. Briefing on the NPIC and IAS Peaceful Uses Boards.
 - **c. Basic characteristics of the photogemmetric problem or associated technical problem.
 - *d. Organization of NPIC and discussion of equipment.
- 2. Provide control point for acquisition of available film and selected supporting material (not already available to the requesting agency) and determine its releasability with guidance from CIA Headquarters if criteria need elaboration. (Scheufele has been designated
- 3. Serve as consultant on coordinating committee under the chairmanship of DD/S&T.

(Any other support will require analysis of effect on total workload and coordination with higher authority if long-term, time consuming requirement is submitted.)

** Note first group of key officials are but for teams only.

^{*} Suggest addition of these items to round off orientation.

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CORONA	en e
	.OF.V/1
19 January 1967	25X1
Copy No.	
ospy no	
MEMORANDUM FOR: See Distribution	
SUBJECT: Earth Resources Observation Satellite (EROS) and Eastman Kodak - Itek (EKIT) Project Briefings	
Coordinator, Earth Resources Observation Satell (EROS) project will present a one-hour briefing on the EROS project at the Multisensor Working Group Meeting to be held at 1000 hours in the Beige Room on 24 January 1967. The Earth Resources Observation Satellite is designed to study global resources for the U.S. Geological Survey. The areas to be investigated include cartography, environmental geology and mineral resources, hydrology and geography.	
project coordinator, and project will present a briefing on the EKIT project at 1400 hours in the Beige Room on 27 Januar 1967. Project EKIT is a series of experiments involving various film connations, solar angles, and sensors to ensure proper utilization of the potentials of the J-3 camera system and CORONA satellite.	F y
3. Space is available for the Division/Staff Chief or Deputy Division Staff Chief at the EROS briefing, and space is available for two represent of each division or staff at the EKIT briefing.	catives
•	.25X1
Colonel, USAF Assistant for Technical Development, NPIC	
Distribution: Copy 1 0/DIR 2 Asst/P&M 3 Ch/SS 4 Asst/OPS 5 Asst/PAG 6 Asst/TDS 7 Ch/CSD 8 Ch/IPD 9 Ch/PSD	
GEOUP 1 12 Ch/TID CORONA For all an entermals: 12 Ch/CIA/IAD CORONA	25X1
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		:
	and a supplementary and a	
		Copy
		27 April 1967
MEMORANDUM FOR THE RECORD		
SUBJECT: Peaceful Uses		
The following points w	ere discussed this dat	e with Mr. Lundahl
after his meeting on Peacer photography in	office:	
A. This project w	rill be identified by t	
B. The next meet: 1 June 1967. Prior to this three weeks, Mr. Lundahl we paragraphs C, D and E prep should an earlier meeting	s time and roughly with ould like to have the r ared so that they will be called for.	be available for use
a ret lbo+ography Which	18 to the tage one see	is to produce a mosaic available coverage of
the area which will be speed engineers precise map outlining the mosaic should have an over coordinates of the area for	will contact area of interest in So lay which outlines the or reference purposes.	and acquire a uth America. This general boundaries and By best coverage is
meant that coverage which of the fact that it may be Division is also to prepare from the KH-4 system with	re a similar mosaic uti	llizing index photography
	rames which were selec	ted by

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Excluded from estematic coverage and Sanitized Copy Approved for Release 2010/03/18 : CIA-RDP80T01137A000300050003-0

			4
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		•	
_			
SUBJECT: Peaceful Us	ses	:	
E. Mr. Lun	dahl pointed out that	11 3 OF	has a
2 t + 1 1 2 2 4 1 0 2	of the NASA test sites i		
would be glad-to pro	and acquire same so		
coverage of these sp	pecific targets.	·	
F. It is e	also desired that samples	over Recife, Nata	al and
Brazil be made for	prior to release	OI Offene management	s are so
be provided to			đ in
G. Mr. Lur	ndahl also indicated that ollateral we had availab	TG TU-HORDE OH OHE	4104
	The Collordingly so that they ca		
will be advised accommaterials for the or	rientation course.		
_	and that t	he questionnaires	indicated
that most of the pe	rsonnel who would be par	ter's however son	ne had
tion program were n	ot photographic interpre	ternreter's as lat	te as 1960.
	reed in the meeting that chese people had no expos		
on the pasis unac o	Mese beobie was I	, —	
		- Ationg NP	та
·	Assistant	for Operations, NP	10
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PEACEFUL USES OF SATELLITE RECONNAISSANCE

This orientation schedule is not intended to prevent discussions, and should be considered as "subject to change."

Monday, 10 July 1967			-
0900 0830-0835	Welcome by Dir/NPIC, Intro of	ACL	25)
0835-0850	Introductory address by		25)
0850	Introduction of	ACL	25)
0850-0900	Address by	•	25)
0900-0930	Address by Dir/NPIC		
0930-1000	Check in and Course Admin. (Security, et al)	TMP, CXG, JPM	
1000-1030	Coffee Break		·
1030-1130	Introduction to Program		25X ²
1130-1300	Lunch		,
1300-1315	Introduction to TID Presentation		
1315-1430	Current Camera Systems		
1430-1500	Coffee Break		
1500-1615	Current Camera Systems (Cont.)		

Tuesday, 11	July	TAQ.(

0830-0900	Current Camera Systems (Cont.)
0900-0930	Film Indexing
0930-1000	Film Processing
1000-1030	Coffee Break
1030-1200	Image Evaluation; Factors Affecting Image Quality
1200-1300	Lunch
1300-1400	Weather; Resolution Corn Targets
1400-1430	Microdens. and Isodensers
1430-1500	Coffee
1500-1615	Mensuration; Photogram. Techniques; Instruments

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Wednesday, 12 July 1967		¥	
0830-1000	Target Positionin Target Plots	g; Precision	25X1
1000-1030	Coffee	· ·	
1030-1130	Attitude Determin	ation	
1130-1200	Improvements in C	collection Systems	
1200-1300	Lunch	at.	-
1300-1430	Improvements in (Cont.)	ollection Systems	
1430-1500	Coffee		
1500-1615	Photo-Related Mar	os and Charts	
1130-1200 1200-1300 1300-1430 1430-1500	Improvements in C Lunch Improvements in C (Cont.)	Collection Systems	

Thursday, 13 July 1967

	, ,	25
0830-0915	Collateral Photography	
0915-1000	Target Briefs and Packets	
1000-1030	Coffee	
1030-1130	Data Base Management	
1130-1300	Lunch	
1300-1400	Open Source Data	
1400-1500	Target Predictions	
1500-1515	Coffee	
1515-1615	Tour PD	

Friday, 14 July 1967

0830-0930-	Graphic and Publications Problems
0930-1000	Coffee
1000-1130	PSD: Photo Laboratory Printing Services Film Storage
1130-1200	Data Reduction: ADP Support
1200-1300	Lunch
1300-1330	Tour IPD
1330-1430	Detailed PI Support
1430-1500	Coffee
1500-1600	Photo Mosaics and All-Source Listings

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PAG/NPIC Briefing Schedule Civilian Scientist Peaceful Uses Program

Monday, 17 July 1967 1030-1200 1200-1300 1300-1415 1415-1445 1445-1615	Electronics Lunch Aircraft Reconnaissance Exploitation Coffee Break Offensive Missiles	
0830-1000 1000-1030 1030-1200 1200-1300 1300-1330 1330-1400 1400-1415 1415-1530 1530-1615	Defensive Missiles Coffee Break Naval Order of Battle Lunch Aircraft Identification Color Presentation Coffee Break Missile Production Closing Remarks	
Wednesday, 19 July 1967 0830-1000 1000-1030 1030-1100 1100-1130	Nuclear Testing Coffee Break Nuclear Production Film viewing display Peaceful Uses Boards Display	

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WORKING PAPER

5 September 1967

ALDRACE D	ATTWENT	$\pi \wedge \tau$	mina	
MINIMI IN		HITE	пнк.	RECORD

bololo: Meeting of Ando buck	1 September 1967, 1400 hour	
	r bepoember 1901, 1400 nour	
	•	
l. Present:	Chairman, Steering Committee	. Working
	es of working agencies; from CIA was	
Guthe and	from NPIC.	<u> </u>
		car sulto
2. began	the meeting by saying the Steering	g Committee
	he working group to get first-hand	_
views. The project officer,	(of GIMRADA), being	g late,
he would call on the working n	members of each agency.	- ,
of US	SGS asked to lead off and voiced the	he concern
-	rpose of the exercise was and quer	
it was effective use of the so		USGS)
•	and began by saying results would	
•	stake their reputations on; felt the	•
	miliarization exercise the project	
	re just doing "busy work" and felt	
	on to the reporting in PHASE III.	
•	ata bank; felt they were working so	omewhat in
a vacuum.	·	

4. Other working members carried on in similar vein. At the scales they were using and the area covered most information gained came down to geographic features, a basic tool for all participants but not contributing further to the dynamics of their different diciplines. There was no debating the value of the photography as a basic cartographic tool, but they could not do all by photos alone; they need collateral and ground truth. (They had been provided mosaics at 1:1,000,000, 1:630,000 and 1:250,000 scale.) There were complaints about the equipment. They spoke of the orientation given them at NPIC and the tour of AMS, in both places where they saw all sorts of sophisticated gear and then they were provided with

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SUBJECT: Meeting of ARGO Steering Committee with Working Team at 1 September 1967, 1400 hours

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a handlens and a straight-edge to do their research and devise a proper evaluation. One suggested they should have done the exercise at NPIC or AMS. They spoke particularly of lacking an ITEK viewer. A hydrographer said, for example, that it was essential but impossible for him to tell whether streams were intermittent or not from the material with which he was provided; at AMS, with the photography on an ITEK viewer, he could see the water, even the wavelets. Some felt that rather than trying to cover such large areas (three, several thousand square miles each, had been chosen); they would have been better off to have worked a few frames on the ITEK viewer; they made plain they did not want to degrade the material but that they had bitten off more than they could chew.

asked if they were recommending they not continue PHASE II and if they were saying they could not add significantly to the data base that already existed; the latter was an important statement but he doubted whether the group was ready to make that decision. What they were implying was that it doesn't make any difference whether the photography was there or not. The problem was that here is this wealth of material covering the world and what use could the civilian agencies make of it. A "mix" with other sources was certainly expected but what was the nature of mixes. He said the team would have to make the basic decisions but that a paper was expected from them discussing their conclusions in relation to the objectives of the excercise. (Someone said, "We don't know what the objectives are".)

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Market Mark

- 6. Park (Agriculture) noted they were being asked to look at material "peaked" for cultural items. A different peaking different filters and films would be better for natural resources. Tepper (NASA) said of course they were interested in developing the collection systems for earth resources.
- 7. Corps of Engineers, pointed out that the military use the material for mapping even though it was not designed for that and he thought there must be a wealth of information for the civilian agencies to use even though the material was not collected with their problems in mind.
 - 8. again said that there were two things to make plain:

a. There was a wealth of photography covering the whole world. There was no reason why this should not be used for operational decisions at higher levels; he was not speaking now of downgrading security controls.

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	SUBJECT: Meeting of ARGO Steering Committee with Working Team at 1 September 1967, 1400 hours
	b. Each, as the representative of his agency, should decide how this material can be useful to his agency.
	9. Guthe suggested that there was a security problem: what size cadre would be necessary to make exploitation effective? Would there be one center or more? replied this was a major government decision for the future. In the meantime it was up to the civilian agencies to familiarize themselves with the material so that decisions would not be made out of ignorance.
[10. Then followed more discussion how to proceed: whether the whole group should go to work on an AID problem relating to agricultural land in the Santa Cruz area of Brazil, whether to finish the large Area I already begun, whether to continue with the hydrological study in Area III. said he needed a paper in one week stating what they intended to do. AID will chair. said it was important PHASE II be generally successful and also that AID get results from it. Also something was to be done about getting the equipment they needed.
•	11. Next meeting Friday, 8 September 1967, 1500 hours at
	12. After meeting Engineers asked if NPIC had an ITEK viewer available for loan; they would check AMS, also look at a 20X-40X viewer presently but not used so far by the group. I said I would check if they couldn't come up with a solution otherwise.
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	Intelligence Officer Operations Staff
	Distribution: Orig - ACL's File 2 - NPIC/OS

	INA 2F	RET RUFF	-
			ING PAPER F PAPER
		5 Septe	ember 1967
MEMORANDIIM	FOR THE RECORD		
	RGO (Peaceful Uses) Highl	lights, 10 August -	1 September 1967
Building.	(NPIC)	:	neers),
choose the	areas in South America t		se II.
ment A). to 15 Nove thus short of several total area said, "Do in each of	Phase II to begin 14 Augustion of report of the polication of the polica	ort by 15 December. se II envisions meding so far chosen (in been the following value to permitists. Overlay of	tober and extend Total project time ium scale studies northwest corner of week. nit participation small scale material
it seemed	pted to explain. to him that vice-presider high level to get action ll him. He turned to me T said I would be and a	said delays "nontial interest in the and if there were and asked that an agave name and phone	delays the scientists expediter should be number. I told
necks at one nications them that	afterward that as far as ur end, that there may he as to just what was wanted who called there had been no bottle requests and delivery definitions.	ave been some confued. (This was afte enecks at our end. ates have been kept	sion due to commu- rward reported to and assured Since then careful and almost all re-
quested m	terial has been delivere	d ahead of schedule	.)
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		÷		
SUBJECT: ARGO (Peace:	And Hana Wighlia	thto 10 August	_ 1 Sentember 19	67
SUBJECT: ARGO (Peace	Tur Oses) ingitti	ilos, 10 August	- I beptember 1)	· ,
d. A semin 18 October from 1300	ar on Phase II is	planned to be	held at NPIC on has been advise	d
and the Auditorium re	served.)	, 110111110		
	raised	the apprehension	of the working	
scientists in regard	to the products	expected from Ph	nase II. They fe	:1t
it could not be consi to stake their profes	dered to be a fix	nished product ans on it. Felt	and would not wan they lacked good	ιτ I
deta-base on one hand	l and were not do	ing justice to m	naterial on the c	other
hand. ass community but that wh	sured him product	would not be to should be a tang	ested by the scie gible thing, not	gen-
eralities.	came back to s	aying expedite j	your_selection of	,
areas and plan of att				
d	mentioned need t	o feed evaluation	ons of material t	io thev
NASA for planning fut not all feel competer		emarked he had	told to use) }
group as he could.				
workers, to define of results from sweeping next meeting of Steen were further remarks suggested Space Advis to evaluate; perhaps latter Steininger not	g decisions from ring Committee wo about encouragin sory Group visit; some commercial	Steering Commit- ould be held with ng visits to Work may people should b	tee.1t was agreed h Working Group. king Group: NASA want group of ou e brought in (bu	d There A had utsider
f. Next me	eeting Friday, 1	September at		
2. Requests for II received Mondo schedule, and 21 and	or material for tay, 14 August and 25 August well i	l delivered 16 a	nd 18 August per	se
3.			ITED NPIG 1	5- AU
•	S TO REVIEW			
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Assamar	₩ O ,			
			21 22	· ·
		ence Officer, Op	perations Staff,	NPIC
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ATTACHMENT A

DEPARTMENT OF THE ARMY
U. S. ARMY ENGINEER TOPOGRAPHIC LABORATORIES
FORT BELVOIR, VIRGINIA 22060

10 August 1967

PROJECT ARGO
REVISED PLAN FOR PHASES II AND III

GENERAL

Two major changes have been made to the original plan:

- Work effort on Phase II will be divided, with contractor personnel, assisted by the participating scientists, making the small-scale overlays, and the scientists, assisted by contractor personnel, doing the mediumscale studies.
- The total project time has been shortened by two months, ending in December instead of February.

PHASE II

Phase II will begin on 14 August 1967.

The contractor will prepare 1:1,000,000 scale overlays for the entire study area for the following subjects: Surface Configuration, Hydrologic Features, Vegetation, Geology, Surface Materials, and General Climatology. Specific legends for each overlay will be the result of discussions between the contractor analysts and the scientists.

All of the contractor effort will be done under the existing contract, which will be modified to account for additional man-hours that could not be estimated when the contract was prepared.

The scientists will prepare several medium-scale studies. Only one of the areas has been selected. For this area, however, all of the materials are available. Other small study areas will be selected by the scientists during the week of 14 August.

Listed below are the subjects on which information will attempt to be developed by the scientists. Each of the principal investigators shown will be assisted by specialists in other relevant disciplines, as well as by contractor personnel, as required. Sanitized Copy Approved for Release 2010/03/18 : CIA-RDP80T01137A000300050003-0 PRINCIPAL INVESTIGATOR

SUBJECT

Average Annual Precipitation (According to Type)

Average Annual Water Yield

Land Use

Estuarine Mechanics

Transportation and Communications

Potential for:

Transportation and Communications Agricultural Areas Forest Product Areas Power Sources Mineral Areas Environmental Hazards .

System Deficiencies

The medium-scale studies are scheduled to be completed by 6 October During the week of 9-13 October, the scientists will examine and compare the small-scale and medium-scale studies and prepare any additional analyses that someone may want to attempt.

A seminar on Phase II could be held on 18 October.

PHASE III

Phase III would begin on 19 October and extend until 15 November, at which time the draft coordinated evaluation report will be given to the contractor for publication. Reproduction will be completed by 15 December.

A seminar on the total project could be held on 20 December.

MAJOR MILESTONES

	•
14 August	Begin work on both small-scale and medium-scale studies
7 September	Complete plans for Phase III
29 September	Complete small-scale overlays
6 October	Complete medium-scale overlays
13 October	Start final drafting
18 October	Seminar on Phase II (Bld 2,3)
19 October	Begin Phase III
15 November .	Complete Phase III
16 November	Start preparation of Phase III report
1 December	Complete Phase II Report Production
15 December	Complete Phase III Report Production
20 December	Seminar on complete project

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DERAFE 11 September 1967

MEMORANDUM FOR THE RECORD	
SUBJECT: Meeting Of ARGO Steering Committee With Working Tea 8 September 1967, 1500 h	m At ours
1. Present: Chairman, Steering Committ	ee, Working
Team, and other representatives of participating and interest	ed govern-
ment agencies (from NASA,	from OEP,
from CIA, Otto Guthe; from NPIC,	
opened meeting, saying they would heat plan for Phase II from then adjourned for 15 minutes	
ing Committee considered report, then go back into session.	
3. began by saying plan was not too different f	rom previous
one except some different areas chosen, sizes of areas change	d and pro-
blems of participants linked more closely. Went on to make f	ollowing
observations on project "involving differences in viewpoints	of experts
and non-experts". Since experts get good results it is assum	med others
will too (as experts he cited NPIC). But as non-experts they	had gone

- A. Great enthusiasm following their orientation at NPIC; a feeling that material would answer many problems.
- B. Disillusionment with mounting problems. Found material beautiful but they were unable to be sure of answers; for example, they

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through the following phases:

IVI OLUNE

couldn't tell a canal from a road from a pipeline.

- C. Now in third phase when some enthusiasm comes back and although growth is slow and not to level of first phase the return is a straight line function "up to now". He went on to observe that the senior in the civilian agencies could be expected to go through similar phases.
- 4. The new Phase II plan presented by envisions three study areas and the following schedule (copy of his paper will be forwarded us by the TKH Channel.):

A. Area I. 28,800 square miles. Agricultural land, mostly in use. Will not discover new agricultural resources but does contain some areas of desert, salt flats, erasion problems about which recommendations could be made. There is much ground truth available for area and members of working party have worked in area. They will produce general overlays to ascertain whether they can be done quickly and whether results worthwhile to the civilian agencies. They will then proceed to a small sample (£. 200 square miles) in vicinity of La Paz for intensive study, and then to an area of £. 50 square miles where KH-7, available. They would have to finish Area I by 18 September. If not done by then they could be faced with a decision. They want a full 3 weeks on Area II and if Area I is not done by 18 September they may want to postpone seesions for one week (from 18 October to 25 October).

TY OLUME!

- B. Area II. 9,800 square miles east of Andes, an area of discovery, little or no ground truth. Would hope to discover potential agricultural lands. This area much like a denied area. Here they would not do small scale overlay but go immediately to a 3 week concentrated study of a small sample area of . 200 square miles. They would have complete Area II by 6 October.
- C. Area III. 92,000 square miles, with about half of water. Mostly for hydrographic studies. Don't plan to do much else with unless time permits.

queried possibility that after Phase III, they might wish to restudy Phase II. If such a possibility should appear high, suggests group do part of Phase III analysis now.

- 6. Steering Committee went into session and then reported Steering Committee was well pleased with plan and endorsed, but left open one point, i.e., that of para. 5 above, they might want to look at Phase III material before 6 October, and he suggested they get their photo orders in now on a contingency basis.
- (NASA) (who was quite "edgy") said NASA hope to get data from the group as to what or what not NASA should fly. This was part of the charge to the group. There were budget considerations coming up and NASA faced decisions in relation the Earth Resources Program.

 UseA agencies were going to be called upon in next couple of weeks or so for choices as to alternatives brought on because of budget cuts.

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101 SEAUCT	
wondered, in this case, whether test site studies	of Phase 25X
III should come first. A working member queried what they were to	
NASA. said that in Phase III it was hoped NASA co	
advised on a number of questions; hopefully, working members would	
gained enough experience by then to answer NASAs questions as to	what
needed.	
8. said he thought he could summarize now their fee	elings: 25X
A. Can't see more in the satellite material than in co	
photography.	
B. Synoptic view of added value.	
C. Coverage, particularly multiple coverage, easier to	o get.
(It might take him 6 years to get conventional coverage of	
wanted in South America, for example).	
D. Must go beyond back-or-white but can recommend KH-	4 and
KH-7 types for civilian use.	
9. suggested problems would be in d	ifferent 25X
"peaking" and beyond black or white. said not completely	so, not . 25X
at all; that for first time the agencies had had an opportunity	to study
the KH material and now perhaps the old requirements they expres	
regarding resolutions and other parameters were no longer valid	
this exercise and they were going to be queried again.	25X
interjected that the agencies previous recommendations had not be	been made
wholly from an "unclassified state of knowledge".	
suggested they keep NASA problems in m	ind. Next 25X
l+	
	20/1

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anitized	Copy Approved for Release 2010/03/18 : CIA-RDP80T01137A000300050003-0	and the Manager of
	TUP SECRET	,25X
•	meeting 6 October, 1400 hours at which time plans for Phase III and progress	
	of Phase II will be reviewed. Workers are to choose areas for Phase III	
	as soon as possible. hopes to bring film orders to Stallings early	25X1
	week of 11 September).	
	11. General Comment: Morale of working group was up. Best since I	
•	have attended the meetings. At last they have a plan of their own devis-	
	ing and feel they can get on with it.	
	·	25X

<u>-</u>	PROJECT ARG	<i>j</i>		•			
<u>-</u>	PROJECT ARG		TSR_	= .	25 Oct	67	
<u>-</u>	FRUIEUT AM	10 /naa	, , , , , , , , , , , , , , , , , , ,		25 UCT	ot .	1
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	1. Rep	productions	of KH-7 Col	lor photogr	aphy fo	r use	
	in ARGO fin	al report.		req	uest fv	ia	25
· - ·	ETL -	formerly O	IMRADA- ARGO	project o	fficer)	•	∠o,
<u> </u>	Precise amo	ount materi.	al not speci	ified (or y	et dete	rmined)	
	but estimat		could be 20	exposures	or les	s in	
	15 paper co	pies each,	plus tressp	erency. (<u>Cost</u> , çî	יאוני ביים	Janes J.
	reproductio	n estimate	d by NPIC/PS	SD at	ma	n hours).	
		ad	vised of rec	mest and p	olicy o	learance	25)
•	of material	approved 1	by	25	Octobe	r 1967.	., 25)
	- 14 - 15 - 15 - 15 - 15 - 15 - 15 - 15	To differ the site case and increase or they again	10.5				
	2. NPI	C Briefing	Boards on	larthouake	damage	in	
	Tashkent an	id a rural	area south	f Peiping.	China,	and	*
	flood damag	ge in the A	nadyr Valles	r. Siberia.	IISSR.	for	
	study and r	oossible re	production				25
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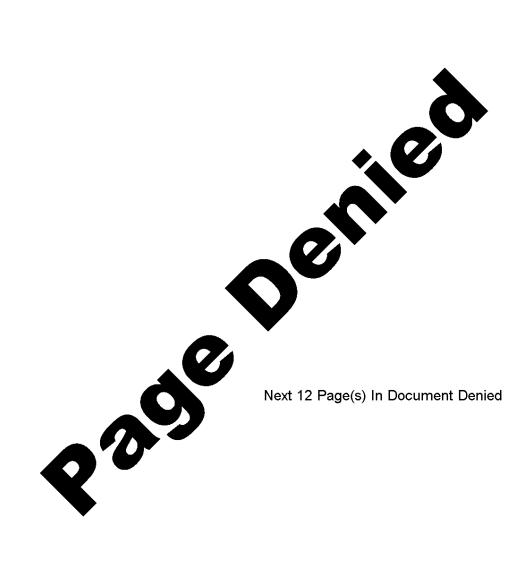
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	30 November 1967	
	MEMORANDUM FOR THE RECORD	
	SUBJECT: Project ARGO	
	1. Project ARGO nears its completion. This is the program initiated in agreement with the DCI and with Secretary Vance for DoD, to investigate the uses of satellite photography (KH-4, KH-5, KH-7) for agencies outside the intelligence community. The final report is now being assembled for the working representatives of the	2 2 2
	final report is now being assembled for the working representatives of she agencies involved by USAETL (GIMRADA) at Autometrics in Alexandria.	
	O mbo culminating briefing for interested top government officials	
	is scheduled to be held at NPIC on TO January 1900. It is expected that	
	some cabinet members will attend and perhaps the Vice-President. A special briefing will be held the preceding day directed to of AID.	25
	3. Preliminary briefings at have been held for personnel from the various interested agencies, including the Executive Office and the Bureau of the Budget. A special briefing was held 29 November 1967,	2
• •	chaired by office. The attendance list, program and biographical sketches of the ARGO working team are attached.	25
	program and biographical sketches of the fine well-re-	
		-
	Intelligence Officer, NPIC	2
	interrigence officer, mito	
	Attachments: a/s	
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	ARGO Bri 29	efing, November 19	67			·		2
	ATT	TENDANCE LIS	T					
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ARGO Briefing

29 November 1967

Suggested Time	Item Speaker	r · Props
5 Minutes	INTRODUCTION	2 Briefing Boards
15 "	ARGO ACTIVITIES	Blackboard
10 "	PHOTOGRAMMETRY	Briefing Boards
_0 "	FORESTRY & AGRIC.	11 11
10 "	GENERAL HYDROLOGY	ti u
io "	SPECIAL HYDROLOGY	n u
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10 "	CULTURAL FEATURES	11
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25 "	GENERAL DISCUSSION	п
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P.A.	31 January 1968	
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	MEMORANDUM FOR THE RECORD	
	Trusted States Department of	
•	SUBJECT: Visit of United States Department of Agriculture, Agricultural Stabilization and Conservation	•
	Agriculture, Agricultural Stabilization and Conservation Service (USDA/ASCS)	
	Service (USIM/MSCS)	
•		
	1. USDA/ASCS, visited TSD/TSSG 30 January 1968	•
•	in connection with project ARGOS which is the code-name for the	
	"Peaceful Uses of Satellite Photography" project is a	
	member of the panel which NPIC hosted for a two week orientation	
	period, and that TSD personnel briefed on certain camera systems.	
•		
	2. was interested in TSD's views on mensuration	
	accuracy as they applied to two distinct problems in the field of	
	agriculture:	
	a. Part of USDA/ASCS's mission is to acquire and compile	
	accurate data on domestic farm acreage in connection with certain	
v	USDA policies of price supports. ASCS makes measurements on	
	six inch focal length mapping photography and on the basis of	
	these measurements, a farmer is assigned an official acreage for	
•	his fields. said that the accuracy requirements	
	were 1% for any side of the field and 2% for the acreage. He	
	wanted to know if the same accuracies could be attained from	
	satellite photography.	<i>.</i> •
	•	
•	b. The second area of interest concerned USDA interest	
	in "emerging nations" or "underdeveloped" nations. For purposes of regional planning. wanted to know if we could	
	meet 10% accuracy requirements in area measurements.	
	3. Before replying specifically to questions, it	2
	was necessary to generally state our present repetitive or pragmatic	
	approach to accuracies, and to discuss in general terms a possible	
	method of theoretical error determination by error propagation. we	
i.	also talked over the inter-action of system vs. resolution error, error	
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Market	SUBJECT: Visit of United States Department of	. 2
	Agriculture, Agricultural Stabilization and Conservation Service (USDA/ASCS)	
	belvies (abasymbos)	-
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	of a majut to a least much of any and the distance between the majute	
	of a point in a local system, error of the distance between two points, error of an area, and the significance of the term sigma in discussing	
	various accuracy statements. It was pointed out to that	2
	to our knowledge very little work has been done in this field either	•
	at NPIC or elsewhere and that many of the ideas presented during our discussion were personal "intuitive" feelings which could not be	
	substantiated at this time.	
	4. In answer to paragraph 2a, was told that it	2
	was probably not feasible to expect a 1% accuracy for distances or	
	a 2% accuracy for areas at this time to any degree of confidence.  It would be possible to produce from our files many measurements of	
	the Phoenix Test Range which do achieve accuracies better than 1%	
	but our statistical base (sample size) would be suspect. In other	
	words even though we may achieve 1% accuracies, we could not estimate	
	if we could achieve them at a 1 sigma (67%), 2 sigma (95%), or 3 sigma (99.7%) value.	
	3 3 (>>- 1/x)	
	5. In answer to paragraph 2b, was told that in	25
	TSD's opinion we could measure to a 10% accuracy in area at a 2 sigma (95% of the time) value. It was re-emphasized to	0.0
•	that this was personal opinion and we had no statistics to back this	25
	claim.	
	6. Two methods were suggested by TSD that might increase the value to USDA. First, the use of stereo was suggested since, in	
	effect, any distance would be obtained from two photographs and any	
	pointing irregularities should be improved by stereo viewing.	
	Second, if an error analysis routine were developed, it could predict	
	and flag all area values that exceeded USDA accuracy requirements	
	7is planning to discuss the problem further with	. :
	his group and it's quite possible he will require more assistance from TSD.	
		:
	NPIC/TSSG/TSD	
	Distribution:	
•	cy 1 - project folder 22346-7, TSSG/TSD	
	2 - TSD/chrono	,
	3 - NPIC/Office of Director	•
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	TOP CENTER	

## TOP SECRET

WORKING PAPER

	20
Project ARGO (Peaceful Uses)	
A symposium to mark the end of the Project ARGO's	
Team's investigations (of KH-4, KH-5, KH-7	25
is now scheduled to be held by Project ARGO in	25
the NPIC Auditorium Wednesday, 6 March 1968.	
The program is aimed at a technical audience, although managerial types are also expected.	<u> </u>
It will last all day. The morning's schedule (0930-12	230)
is planned to have an introduction by or	25
describing the objectives of the Project, follow	<b>red</b> 25
by the teams! presentation of 8-10 papers on results. The	<u> </u>
afternoon is to be devoted to a plenary session at which	
questions will be entertained and discussion encouraged.	
If anticipated discussion developes the group may be broken	1
into as many as 6 discussion groups.	
WSS has indicated that NPIC could use 12-20 seats. It	<b>t</b>
is expected that the demand from the Washington area will	
exceed the 150 capacity of the Auditapium.	25
will soon write invitations to the agencies via members of	<del>,</del>
the "Steering Committee" asking for nominations for attenda	
to be submitted to him by 26 February.	
The report will be published previous to the Symposium	<u>m</u>
and available.	_ <del> </del>
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MEMORANDIM FOR THE RECORD  SUBJECT: Project ARGO - Comments on Memo to Accompany ARGO Final Report  REFERENCES: A. 12 February 1968, Covering Memo from AD/DCI/NIPE Requesting Comments on  B. 12 February 1968, braft of Memo to accompany Project ARGO Final Report and to be signed by Special Assistant to the President for Science and Technology  1. On the morning of 13 February advised that they wished a single DDI reply to NIPE on stated the had no need for follow-up memo. advised that NPIC comments had been provided for the DDI's reply to his memo.  2. There follows the text transmitted by phone to A. We agree with three points.  B. Beyond these, it is certain that the proposed standing committee will be making requests of NPIC for materials and other miscellaneous services. Something should be said in the comments back to that NPIC's ability to provide such services must be subordinate to NPIC first meeting a heavy load of intelligence requirements.  C. Believe also it would be advisable to insure that there is understanding of the fact that imagery analysts, photogrammentrists and other such specialists are in extremely short enoughly and there needs be some arrangement to avoid emphasizing	ANDUM FOR THE RECORD  OCT: Project ARGO - Comments on Memo to Accompany ARGO Final Report  RENCES: A. 12 February 1968, Covering Memo from AD/DCI/NIPE Requesting Comments on  B. 0 February 1968, Traft of Memo to accompany Project ARGO Final Report and to be signed by Special Assistant to the President for Science and Technology  1. On the morning of 13 February. advised that President for Science and Technology  1. On the morning of 13 February. advised that Executive Director, were phone and the proposed by the Director during the morning.  Executive Director, were phone and the NPIC comments, approved by the Director during the morning.  Executive Director, were phone and the NPIC comments had been provided for the DDI's reply his memo.  2. There follows the text transmitted by phone to  A. We agree with three points.  B. Beyond these, it is certain that the proposed standing committee will be making requests of NPIC for materials and other miscellaneous services. Something should be said in the comments back to that NPIC's shillty to provide such services must be subordinate to NPIC first meeting a heavy load of intelligence requirements.  C. Believe also it sout that imagery analysts, photogram-				• •	···	**
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SUBJECT: Project A to Acco	RGO - Comments on Draft of Men
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until the countries inspiration,	begin to meet the various national needs.
until the countries inspiration,	your information NPIC to date has expended 3,27 support of Project ARGO, 2,256 of which were e
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			4 March 1968	
NEMORANDUM FOR:	Chief, Imager)	ng, Programming an y Exploitation Gro tion Services Grou cal Services and S	n na	
SIBJECT :	Project ARGO	Symposium, NPIC Au	ditorium, 6 Merch 1968	
Symposium far comment of the war provided to names, with the	rices avencies h	as had to be reduced that alternates we day. We now have	wats for the Project ARGO Auditorium, the seat allot- ced. We had originally the President, a list of 20 cald also use many of these a 10 seats allotted, in the	
Mr. I	iandah).			
Parhens von Wi	dition to the al 11 find it desir they are free.	hove, the original rable for these an	list had the following names d others who had so planned to	• D
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- 3. A Working Agenda is attached.
- 4. Lunch is scheduled from 1230 to 1330 and it is anticipated that most of the 150 attendees will be eating in the ______ cafeteria. It would be appreciated if you would advise your personnel for most to plan to eat early.
- 5. Security level of the Symposium is T-KH, but T-KH discussion is restricted to NH-4, NH-5 (DAFF), NH-7
  Request you remind your personnel attending of the restrictions.

Assistant to Deputy Director, or IC

Attachment: NS

Distribution:

Copy 1 - NPIC/PPBS

2 - NPIC/IBG

3 - NPIC/FSG

4 - NPIC/TSSG

546 - NPIC/ODIR

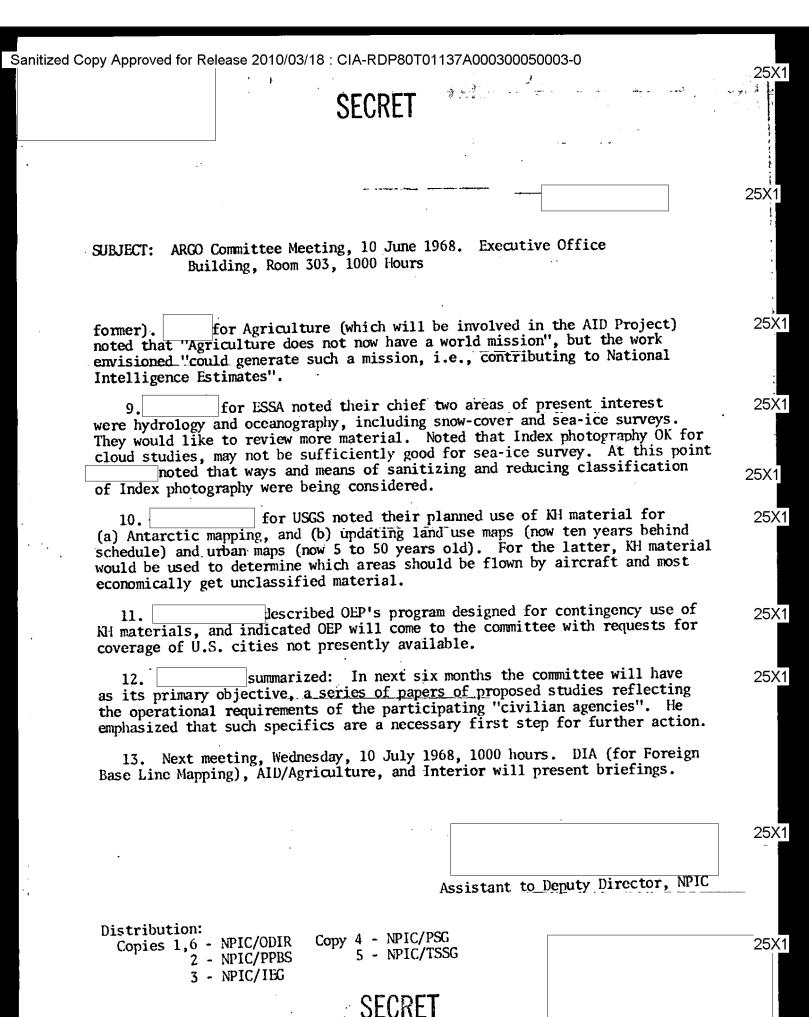
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				-	12 June 1968		
				,	12 June 1500		
	MEMORANDUM PO	O THE RECORD					
	SUBJECT: ARG	Committee Meeting, 10 uilding, Room 303, 1000	June 1968. Hours	Execu	tive Office		
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	ommittee Meeting, ding, Room 303, 10	10 June 1968. Exec 00 Hours	cutive Office
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benefit of the g said he would li including types indicated that a our preliminary dicated afterwar given them, and	roup. He remarked ke to have their e of subjects of int briefing would prechnical studies d that he would list was agreed this lave a graphic	on the recent experience of the control of the cont	antageous to present after
reviewed thinkin will attempt to check with NPIC	g to date and repo have a specific pr	oject formulated warrage available. A	for State/AID Lundahl last week. They ithin three weeks, will ouestion is whether to was recommending
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			•	12 June 1968	
MEMORANDUM F	OR THE RECORD				
SUBJECT: AR	GO Committee Mee Building, Room 3	eting, 10 June 803, 1000 Hours	1968. Execut	tive Office	
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	SUBJECT: ARGO Committee Meeting, 10 June 1968. Executive Office Building, Room 303, 1000 Hours
	intelligence community procedures. The on-going KH intelligence resource can be made use of by the "civilian agencies" under the present rules and security restrictions and it is the purpose of the committee to consider in that light. It is not to be the committee's function to relieve the Agencies of the responsibility for establishing and justifying needs.
	then briefly reviewed the follow-up projects suggested by the participating agencies in the Executive Summary of the ARGO Report, and in the Agencies' responses to covering letter to that report. Discussion then went around the table.
	of Transportation (Transportation was not a participant in the previous ARGO exercise) had queries on operations costs, aircraft vs. satellite; would like figures like "cost per square mile per feet ground resolution".  said the committee should consider, but referred to NASA, which is forming a similar committee and which will be involved with cost. remarked that this committee will have its first meeting 16 Jane. One of its functions will be to consider the impact of the ARGO study.
	briefly reviewed COMIREX organization and procedures for mefit of the group. He remarked on the recent experimental use of Bi-Color, said he would like to have their evaluation, and a briefing was suggested including types of subjects of interest to them which were covered. indicated that a briefing would probably be most advantageous to present after our preliminary technical studies were a little further along. indicated afterward that he would like to see an indication of areas covered given them, and it was agreed this would be followed by a briefing when feasible. We will have a graphic of potentially useable Bi-Color coverage available for the next meeting).
	8. The Agencies then commented on their plans. for State/AID reviewed thinking to date and reported meeting with Lundahl last week. They will attempt to have a specific project formulated within three weeks, will check with NPIC as to whether coverage available. A question is whether to opt for historical or current study or combination was recommending
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JBJECT: ARGO Co	mmittee Meeting, 10	June 1968. Ex	cecutive	e Office.
Bullo	ing, Room 303, 1000	110u15		•
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f Index photogra	phy were being cons	idered.		•
chedule) and urb ould be used to	mine and (h) undat	ing land use m O years old). as should be f	aps (no For th	ie lattel, mi motellor
11. If materials, and coverage of U.S.	described OEP's d indicated OEP will cities not presentl	come to the c	ned for	contingency use of ee with requests for
topoitement and	jective, a series of the	of papers of papers of papers	roposed "civil:	ommittee will have studies reflecting ian agencies". He p for further action.
13. Next mee Base Line Mappin	ting, Wednesday, 10 g), AID/Agriculture	July 1968, 100 , and Interior	00 hours will p	s. DIA (for Foreign resent briefings.
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		Assist	ant to	Deputy Director, NPIC
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	10 July 1968 Copy	25X1
	MEMORANDUM FOR: Assistant to Deputy Director, NPIC  SUBJECT: Peaceful Uses of Satellite Photography	
	for the peaceful uses of photography, which the ARGO Project might have an interest in. A copy of his memorandum of 10 July 1968 is attached.	25X1 25X1
	Chief, Imagery Exploitation Group NPIC  Attachment: Memo from dated 10 July 1968  Distribution: Copy 1 - NPIC/DD/Asst (w/att) 2 - NPIC/IEG/SD (wo/att) 3-4 - NPIC/IEG/SD/NIB (w/att)	25X1
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10 July 1968

MEMORANDUM FOR: Chief, Nuclear/Industrial Branch, SD/IEG

SUBJECT:

Two Suggested Ideas for Peaceful Uses of Satellite

Photography Program.

- 1. Two ship borne expeditions have explored the sea off Hawaii to describe and to study successfully the migration of gigantic eddies 50 miles across, a wave length of 85 miles, and a movement of 22 miles per day. The eddies move in the current induced by its flow around islands according to von Karman's Law of Wake Effect. The eddies are said to bring up food fishes from the colder deeper waters. Similar eddies are said to be observed by cloud distribution in air currents flowing around mountainous tropical islands. Gigantic storm induced eddies have been observed on index camera photography off the Kurile Islands and the central Caspian Sea. A brief written description of the eddies is to be found in the Pacific Science Association Information Bulletin, vol. 20, no. 2, p. 45, April 1968, Unclassified.
- 2. An abstract of a Russian paper presented at a US meeting on the Physics of the Atmosphere, reports that hail studies were conducted during 1964-67 in Moldavia, USSR. More information on the time and place probably can be obtained from the manuscript possibly on file with the American Meteorological Society. If the ground facilities and field equipment deployment can be located on satellite coverage a comparison with US Air Force studies in Colorado and the Alberta Provincial Research Council might be of interest and value on severe weather modification studies. Source: American Meterol. Society, Bulletin vol. 49, no. 5, pt 2, p. 620, May 1968.

Nuclear/Industrial Branch,
SD/IEG/NPIC

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For Remental History forume ]

23 September 1968

Project ARGO

Interest in the "peaceful uses" of satellite photography by NPIC dates from 1960, when imagery was obtained by the first sucessful reconnaissance satellite. As photography accumulated and the state-of-the-art developed, there was recognition that, consistent with the restraints imposed by security, government departments and agencies other than those in the intelligence community; should be aware of the product for its contribution to their background knowledge, and, potentially, to their special needs. In 1965, a committee acting under the auspices of the National Security Action Memorandum 156, in a review of national policy for satellite reconnaissance, recommended that measures be devised to give the "civilian agencies" controlled access to information from the satellite reconnaissance systems. In 1966, the Special Assistant to the President for Science and Technology took action to begin a formal study of the classified photography by the "civilian agencies", and with the approval of the Director of Central Intelligence and the Secretary of Defense, and in concept with the Departments of Agriculture, Interior, and Commerce, the Agency for Internation Development and the National Aeronautics and Space Administration, a plan was developed and Project ARGO began in July

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A team of resource specialists from the participating agencies and representing the disciplinary interests of agriculture, geology, hydrology, geography, marine sciences, map products and engineering proceeded to investigate the photography from six camera types from four reconnaissance satellite systems in terms of the information content and usefulness to the participating agencies' needs. NPIC provided initial orientation for the team, material and technical assistance during the course of the study.

The results of the evaluation, published in February of 1968, recognized the potential of the material and suggested that some needs of the civilian agencies might be served as by-products of the present intelligence satellite collection systems. As a consequence, at the suggestion of the Special Assistant to the President for Science and Technology, and with the approval of the Director of Central Intelligence, the ARGO Steering Committee was established as a Standing Committee in June 1968, to (1) collect and consolidate the needs of the "civilian agencies" for photography from the current systems, (2) make these known to the intelligence community, and (3) discuss with the intelligence community procedures for the handling of the material. NPIC maintains a liaison representative to this committee and provides appropriate technical support.

NATIONAL RESEARCH COUNCIL
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NATIONAL ACADEMY OF SCIENCES NATIONAL ACADEMY OF ENGINEERING

2101 CONSTITUTION AVENUE WASHINGTON, D.C. 20418

November 15, 1968

Mr. Arthur Lundhahl
Central Intelligence Agency
Langley, Virginia

Dear Mr. Eundhahl:

The National Academy of Sciences has recently completed a comprehensive study undertaken at the request of the National Aeronautics and Space Administration of useful applications of earth-oriented satellites. The study was accomplished by panels of experts in communications, economics and the earth and environmental sciences and was under the general direction of _______ Chairman, and a ______ 25X1 Central Review Committee.

The study was accomplished at Woods Hole, Massachusetts during the summers of 1967 and 1968 and a one day briefing of the results was held there on July 31, 1968 for senior U.S. Government officials and members of their staff. In addition, an interim summary of the panel reports based on the work accomplished during the summer of 1967 has been issued. Volumes will be published towards the end of this year which will contain the final report of the Summer Study on Space Applications with complete details.

On Thursday, November 21, 1968 at the National Academy of Sciences in Washington, D. C. there will be a second presentation of the study findings. The briefing will last from about 9:00 am to 5:00 pm and will be held in the Lecture Room at 2101 Constitution Avenue, N. W. Subjects to be covered will include possible space applications in

the fields of meteorology, hydrology, oceanography, forestry, agriculture, geography, geology, point-to-point and broadcast communications, navigation and traffic control, and possible data systems for receiving, handling, and distributing information gathered by remote sensors.

The one day briefing of the status and prospects of these rapidly developing-fields will include the conclusions and recommendations of the Central Review Committee. Like the July 31 briefing it will be directed primarily to the senior staff of major departments and agencies of the U.S. Government which may have an interest in these applications of satellite technology and especially to those unable to attend the earlier session.

On behalf of you are extended a cordial invitation to attend the briefing at the Academy on November 21, 1968. I would appreciate a reply in the near future indicating your plans and also suggestions concerning the attendance of members of your staff who are concerned with the topics to be covered.

Sincerely,

Executive Secretary
Committee on Remote Sensing
of Environment
Telephone 961-1516

ER:ds

Plead tall names of those who would like to attend to:

The 961-1516.

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### Summary Briefing

### SUMMER STUDY ON SPACE APPLICATIONS

Thursday November 21, 1968 The Lecture Room, National Academy of Sciences 2101 Constitution Avenue, N. W. 9:15 am Welcome and Introduction 25X1 Study Chairman General Objectives and Status 25X1 Areas of Application 25X1 Information Systems 25X1 Technical Application 25X1 12:30 pm Lunch - may be purchased in the Academy Refectory 1:30 pm Future Opportunities 25X1 National Considerations 25X1 International Considerations 25X1 Summation 25X1

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### EXECUTIVE OFFICE OF THE PRESIDENT

OFFICE OF SCIENCE AND TECHNOLOGY WASHINGTON, D.C. 20506

May 27, 1969

### MEMORANDUM FOR

ARGO Steering Committee

You are reminded that the next meeting of the Committee will be held at 9:30 a.m. on June 3 in Room 208 of the Executive Office Building. The primary agenda item will be a briefing

by the Marine Sciences	s working Group on its recent report.
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	Chairman, ARGO Steering Committee
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SUBJECT: Meeting of	the Steering	Committee/A	RGO, Room 208,		
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	25 August 1969
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	MEMORANDUM FOR THE RECORD
	SUBJECT: Steering Committee/ARGO Meeting, 9 July 1969
	••••••••••••••••••••••••••••••••••••••
	and I attended a meeting of the Steering
1	Committee/ARGO on 9 July 1969. The meeting was held in Room 208 of
	the Executive Office Building. This memorandum is a report of that
.4.	meeting.
	of the Army Corps of Engineers began
	the session by introducing a briefing on the Indiana and the Wabash
	Direct Conel projects. The Indiana project was an exercise assigned to
•	the Assess downs of Engineers in an attempt to determine whether Mi-4
	photography provides sufficient information for the initial planning of road and airfield locations. Utilizing a photo-mosaic of the area under
•	road and airfield locations. Otherwise a photo-mosaic or one and consideration, the Corps of Engineers proposed two probable road routes
	three sinfield locations. Ground truth compiled from conventional
	the character of Indiana confirmed the applicability of these
	moutog and locations. The usability of saterfice photography for the
	initial planning of such construction was thereby verified.
•	
•	The second project presented, "The Wabash River Canal Study,"
	utilized KH-4 coverage to determine the feasibility of constructing a
•	
	use of a photo-mosaic compiled from KH-4 coverage it was determined that
	six problems exist which make the construction and use of the proposed canal impractical. The major problem confronting the canal proponents is
	canal impractical. The major problem controlling the canal properties the lack of an adequate source of water required for canal operation. Thus
	the lack of an adequate source of water required for canal open and the project shoul

barge canal connecting Lake Michigan with the Wabash River. Through the use of a photo-mosaic compiled from KH-4 coverage it was determined that six problems exist which make the construction and use of the proposed canal impractical. The major problem confronting the canal proponents is the lack of an adequate source of water required for canal operation. Thus, it has been determined that the canal is not feasible and the project should be abandoned. A problem, however, arises from the fact that, although the feasibility study has been acomplished, security restrictions permit disclosure of only the conclusions of the study. Congressional proponents of the Canal Project would naturally challenge these conclusions and since the Army Corps of Engineers cannot release the source of the data or methods employed for reaching the stated conclusions, the conclusions in themselves are of little value. Thus, although the outcome is already known, the study is being re-done by conventional means in order that the conclusions can be re-formed from a public documentable source. It is unfortunate that funds and manpower must be expended to reach a foreknown end but it is hoped that the major effort will be employed in documenting the known problems

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SUBJECT: Steering Committee/ARGO Meeting, 9 July 1969

thereby still effecting some manpower savings. A nine page extraction from the ARGO Steering Committee briefing on this study is included as an attachment to this paper.

3. The problem of classification was next discussed. Dissemination, to the public, of information gained from the use of satellite photography . is faced by all committee members. Cleared personnel using classified materials as an information source are often required to substantiate their decisions and judgements to uncleared planners and engineers. Since the information source cannot be disclosed, substantiation is difficult. In this regard, congressmen, who by nature require proof of information derogatory to their pet projects, prove to be the Peaceful Uses Committee's worst enemy. It was mentioned that, in an attempt to eliminate this problem, a reconstituting machine is presently under development. This piece of gear will have the capability of altering the appearance of satellite imagery regarding scale, size of format, coverage per format, shadow direction, etc. Thus, many of the parameters which disclose the actual source of the photography will be changed to simulate that accomplished by conventional means. It was indicated, however, that other clues, such as vast amounts of coverage within the same time frame which indicate other than the conventional sources, continue to be a problem.

Though it would-seem that the classification aspect would tend to dampen the use of satellite coverage for civilian needs, the cost savings afforded by its use makes the problem bearable. It was estimated that the cost savings afforded by the use of satellite coverage over conventional aerial coverage was in the realm of 200 to 1. This savings is based strictly on usage since the satellite coverage is provided to the various users at no charge. If the users were required to share in the cost of the satellite program to obtain their needed coverage, the figures might be somewhat different. It was suggested in fact, that possibly civilian users of satellite coverage be charged for their usage and thus, somewhat reduce the reconnaissance costs of the Intelligence Community. Most members of the Peaceful Uses Committee were not too favorably impressed by this suggestion.

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TCS-8888/69

SUBJECT: Steering Committee/ARGO Meeting, 9 July 1969

presented the Manhattan Tanker This is a study to determine the feasibility of transporting Project. oil from Alaska to the U.S. Mainland on a year around basis via the Northwest Passage across the top of the North American Continent. appropriate ship for such a route is a combination tanker/ice breaker. The ship chosen for this test was the tanker S.S. Manhattan, presently the largest tanker in the U.S. Fleet. The S.S. Manhattan is now undergoing a modification which consists of adding an ice breaking bow. It has been calculated that once underway the S.S. Manhattan will be capable of breaking ice with a thickness of six to eight feet in a continuous mode and up to 50 foot thickness in a ramming mode. An attempt will be made to skirt areas of ice with a thickness of over 50 feet. To locate these areas, aerial surveillance of the route has been requested. Two flights per week are required for the forecasting of the ice ridges along the planned route. Support will be furnished by the U.S. Coast Guard employing conventional reconnaissance aircraft. Covert use of the SR-71 aircraft is also planned to obtain a more extensive/accurate data base than can be provided by the overt Coast Guard sources.

Since a portion of the Manhattan's voyage will transverse Canadian waters and surveillance aircraft will penetrate Canadian air space, cooperation with Canada on this project is imperative. The S.S. Manhattan will be advised of problem ice areas ahead of her as detected from the aerial photography and her route adjusted accordingly. The data will also be utilized to form a base for future studies of the static and shifting ice conditions in these waters. To provide additional photography of the route area, satellite coverage has been requested and will be obtained if a mission is flying during the voyage of the Manhattan and targeting/operational conditions make it possible. Should satellite coverage be obtained, NPIC support of this project may be requested.

A successful voyage of the Manhattan will establish the precedent for year around use of this shipping lane and the need for additional tanker/ice breakers. A second tanker/ice breaker twice as large as the S.S. Manhattan is already on the drawing board and will be constructed if this route proves favorable. At present the sailing date set for the S.S. Manhattan is the end of July 1969.

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In any case, we must wait to a supporting contract is apprand NPIC is asked to particip	oved, ate in the progr	is the contra	actor selected	
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I have become more approutilizing a covert information become evident to me that the by satellite photography is of for planning and engineering transportation, urban renewal Uses Committee meetings will more knowledgable in the effect thus be better prepared to o	on source for over e available infor of definite value in such areas as ls, etc. Continu enable the APSD orts of the communities of the communitie	rmation and date to civilian es agriculture, ued attendance representative ittee and its i	ta base provided enterprises conservation, to the Peaceful e to become members and	
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#### NOTE

The following nine pages were extracted from a briefing given to the ARGO Steering Committee, 9 July 1969.

Six of these pages contain the markings "THIS DOCUMENT MAY NOT BE RELEASED TO CONTRACTOR ORGANIZATIONS OR PERSONNEL WITHOUT PRIOR APPROVAL OF ENGINEER STRATEGIC STUDIES GROUP, OCE."

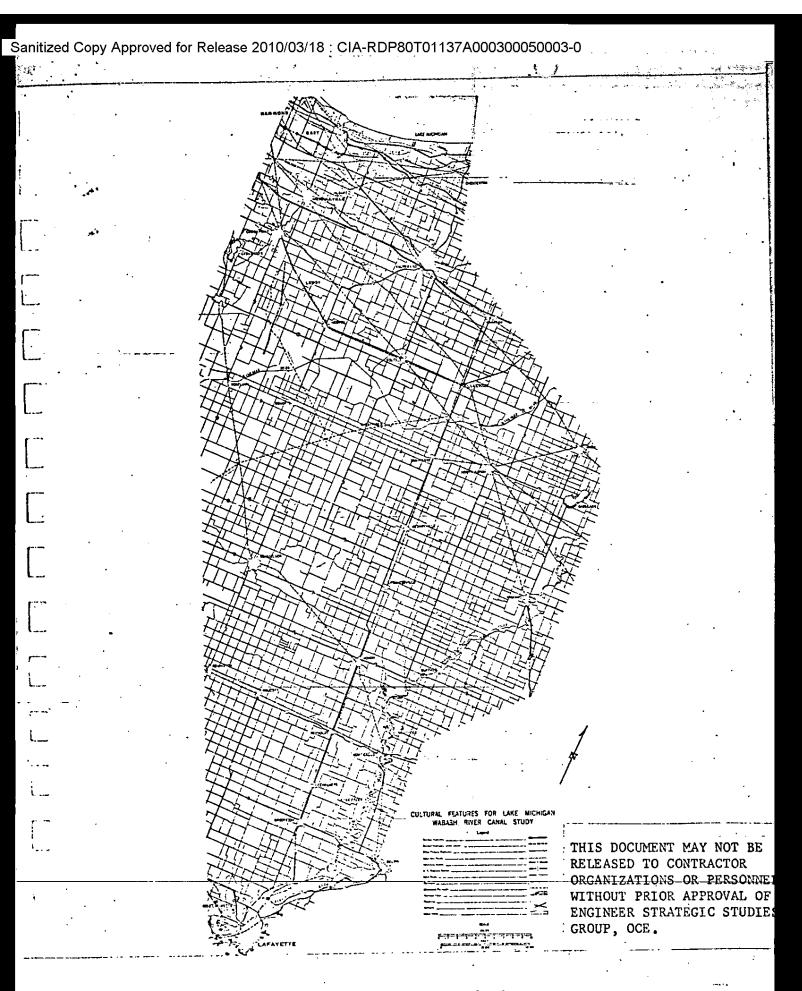
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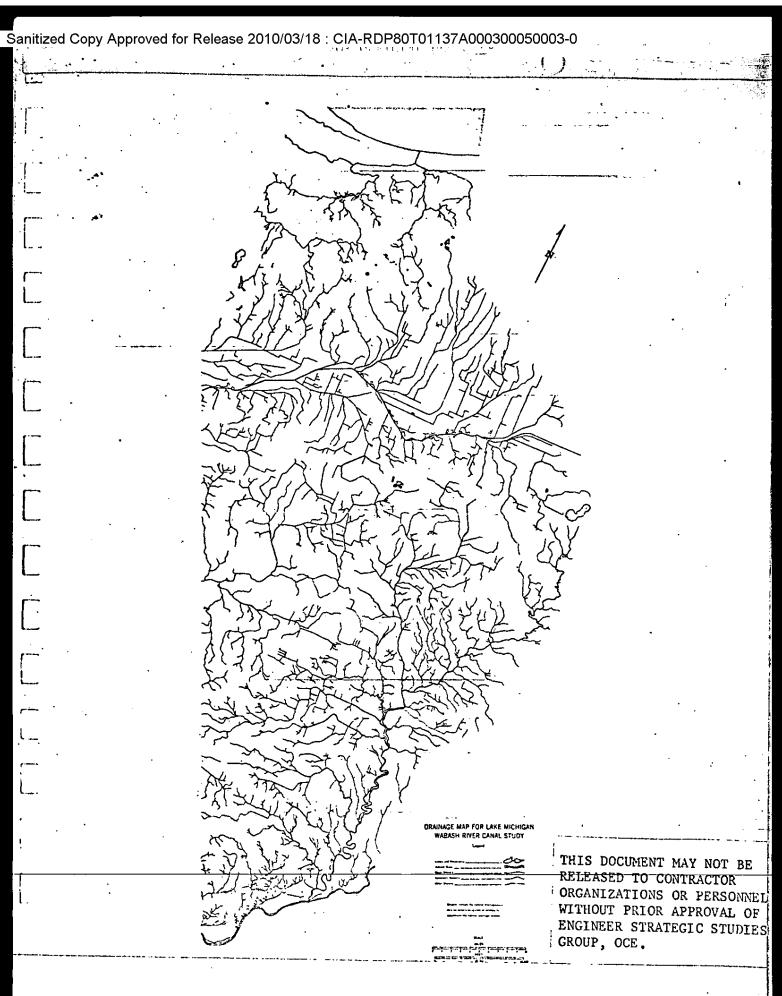
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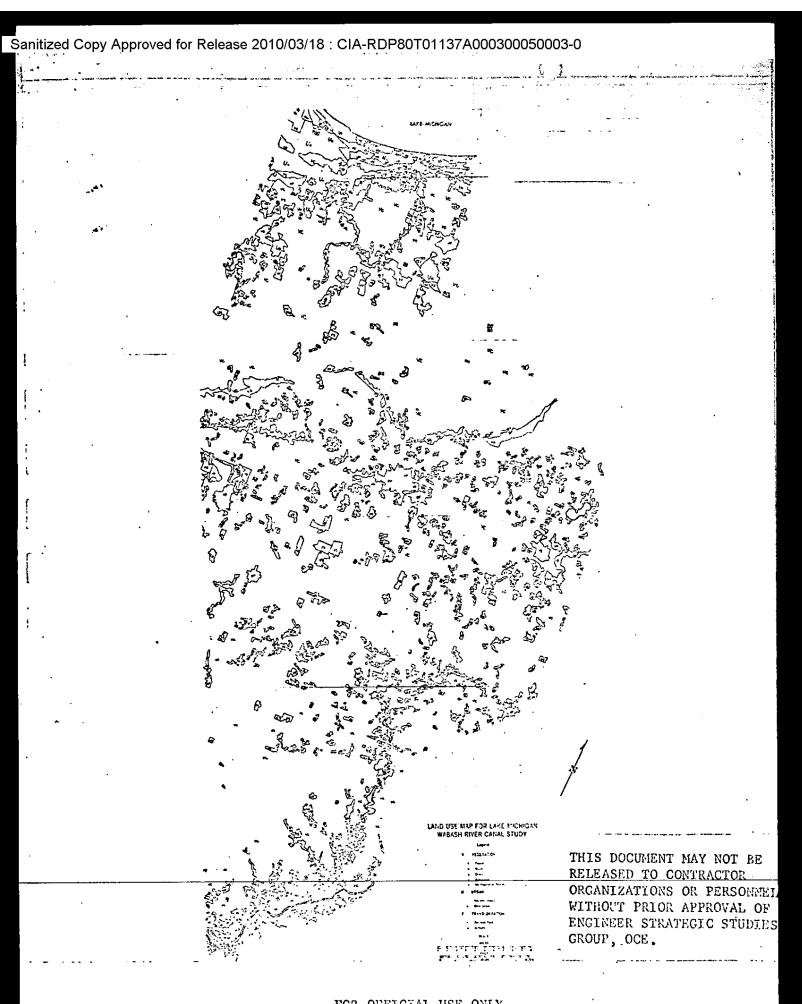
studies of major military engineering undertakings, especially base development, in support of war plans, contingency plans, and other DOD programs. In preparing these design studies the Division develops and uses new techniques embracing photogrammetric and photointerpretation applications to natural and environmental sciences. In accomplishing these functions, the Division:

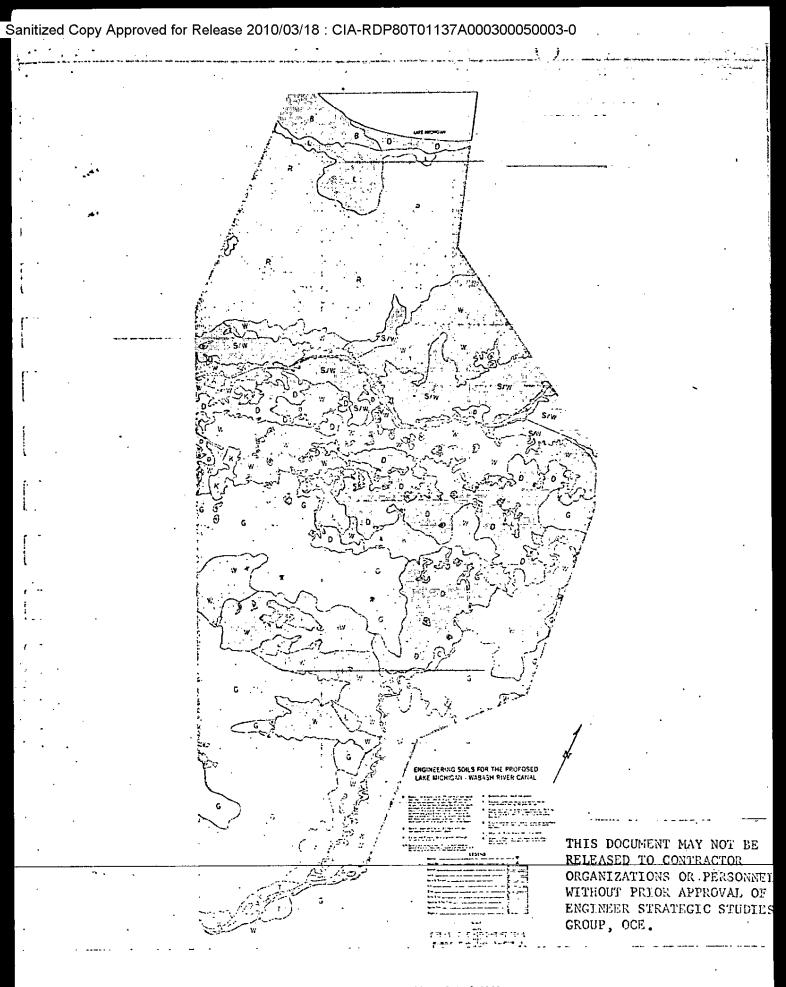
- (1) Develops improved analytical methods, and recommends
  equipment changes to support engineering studies of proposed engineering
  projects through the use of photogrammetry.
- (2) Develops, compiles, and disseminates engineering studies pertaining to selected geographic areas throughout the world, identifying those aspects of the environment (soils, geology, hydrology, ecology, and climatology) that bear on military operations, particularly mobility, in the area.
- base development and other military engineering requirements in selected areas throughout the world, developing construction requirements in terms of facilities and installations, identifying engineering troop and material resources, and establishing construction schedules for completion of the construction tasks in concert with proposed time-phasing of troop deployment in support of military operations.
- (4) Provides assistance to Theater Commands and Department of Army staff elements (DCSLOG, DCSOPS) in the preparation of engineering studies, contingency and operation plans, or other staff studies.

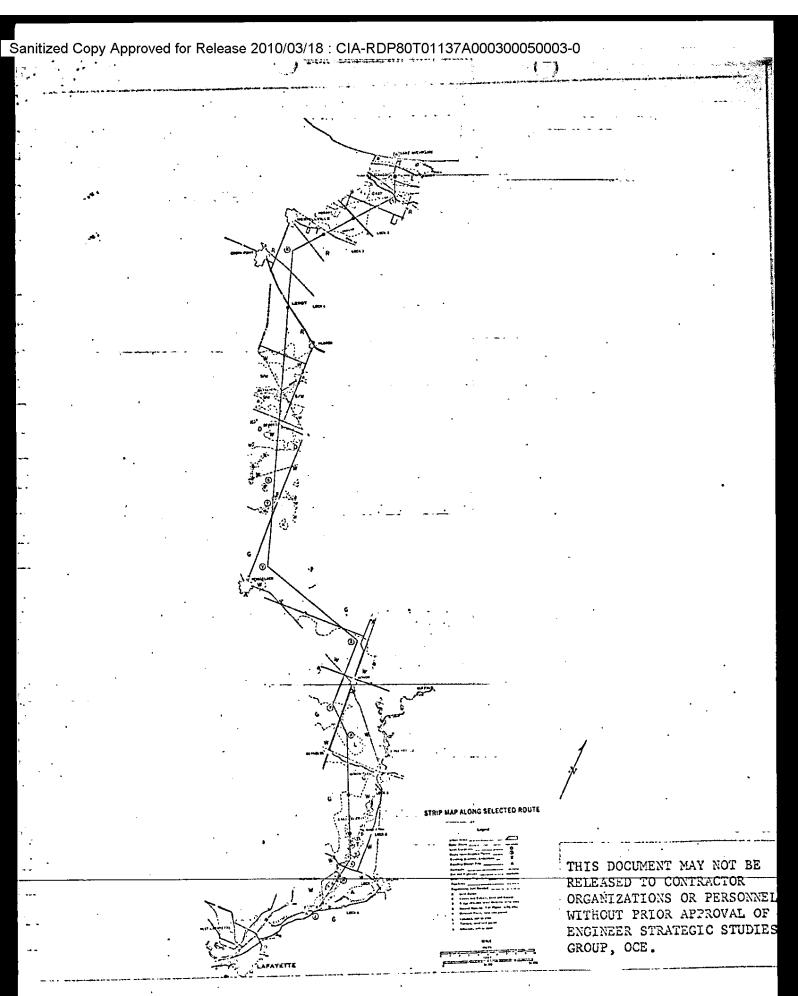


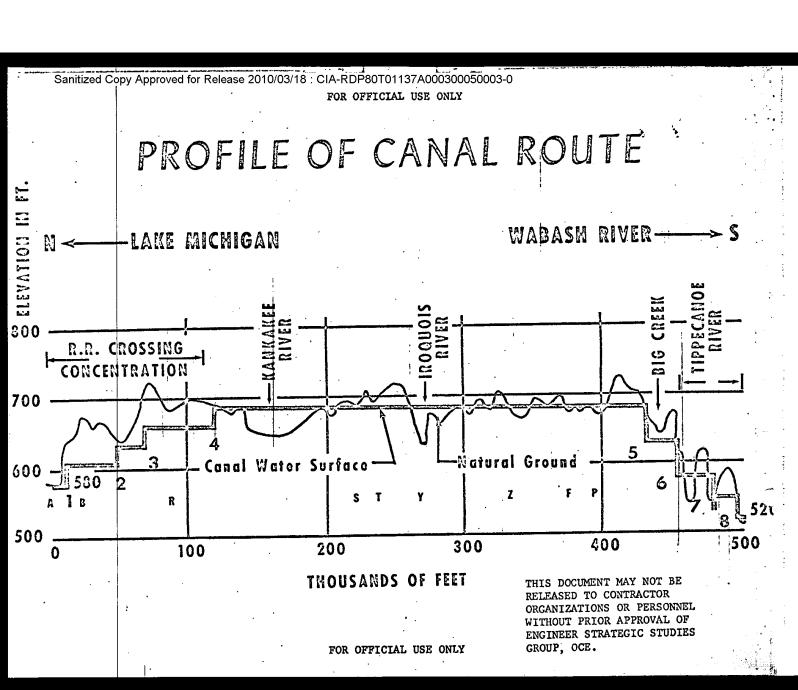












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# MAJOR PROBLEMS

- OINTERRUPTION OF TRANSPORTATION
- O EXTENSIVE LAND USE
- o source of water for operation
- ofew good water storage sites
- O SEEPAGE IN EXTENSIVE AREAS OF GRANULAR SOILS
- O CROSSING THE KANKAKEE RIVER

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NPIC/TSSG/RED-1871/69 21 October 1969

MEMORANDUM FOR:	Chief, Planning, Programming & Budgeting Staff, NPIC
ATTENTION: THROUGH:	Chief, Technical Services & Support Group, NPIC
SUBJECT:	Technical Representative to ARGO
, ganggananan	
1. It is	requested that be assigned to tings as a technical assistant. is keenly
arth sciences uring meeting  2. Additivith ARGO objectment programs as evaluated to avaction instrumeneetings would	plus his experience in cartography, photogrammetry, and oceanography, will make him a valued assistant deliberations.  onally, many of the exploitation parameters associated tives are closely related to NPIC research and developed, as_such, should be judiciously monitored and oid duplication of effort in the development of explointation and techniques. presence at ARGO add to the reciprocal exchange of technical information mbers and NPIC R&D efforts.
	ove has been coordinated with
•	Chief, Research & Engineering Division, TSSG/NPIC
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# SECRET

TSSG/APSD/IEB-041/69 26 November 1969

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MEMORANDUM FOR THE RECORD

SUBJECT: Steering Committee/ARGO Meeting, 1 October 1969

and I attended a meeting of the Steering Committee/ARGO on 1 October 1969. The meeting was held in Room 208 of the Executive Office Building. This memorandum is a report of that meeting.

2. The Department of Agriculture representatives presented an up to date report of their underflight program. The program consists of eight multi-sensor flights during the growing season of the Imperial Valley. Seven flights, beginning in April, have been flown with the last one scheduled for late October. Ground truth color photography (Ektachrome) was acquired in conjunction with each flight to record the crop growth level at that point in the growing season. Thus far, only two of these missions have been processed and printed. The major delay toward completion lies with the low priority given this project.

indicated that he may be able to expedite work on the backlogged missions if the following questions were answered. Can the number of reproductions be reduced? He wondered if each recipient needed entire copies or could they request specific segments for reproduction if the material was numerically indexed. He also inquired if each recipient had the capability, equipment and personnel to utilize all of the material simultaneously or if it is possible to share copies between groups. The answers were not readily available but it was said they would be provided by phone to

CIA, gave a brief presentation of his efforts in support of the underflight program and some additional data of similar studies being sponsored by CIA.

3. The USGS informed the committee of the successful passage of the S.S. Manhattan through the Northwest Passage to Alaska. The planned surveillance support of this venture with SR-71 aircraft flights did not materialize because of the cost and risk involved. Future surveillance support of these Northwest Passage voyages may

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# SECRE

TSSG/APSD/IEB=041/69

SUBJECT: Steering Committee/ARGO Meeting, 1 October 1969

be provided by U-2 aircraft.

- the usability of photographic coverage of the Camille disaster area. He had received a huge volumn of photography from numerous sources covering the gulf coast area. Studies of the photography were still being made but estimates of the damages can readily be made. Attached is a copy of his preliminary report, but the reproductions made from the photo illustrations are very poor.
- 5. The meeting closed with a proposed date of the next meeting set for 25 November 1969 (since changed to 9 December 1969). A tentative agenda was also stated to include a short briefing on the new S0-242 color emulsion by NPIC representatives. The meeting was informative, interesting, but confusing to me since my attendance was on short notice and my background knowledge to the functions of the ARGO Steering Committee quite limited.

NPIC/TSSG/APSD/IEB/Sec II

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Attachment to TSSG/APSD/IEB-041/69

### HURRICANE "CAMILLE"

An Appreciation of the Damage As Interpreted from Aerial Photography

by

Resource Evaluation Division National Resource Analysis Center Office of Emergency Preparedness 25X1

August 29, 1969

## ACKNOWLEDGEMENTS

<del>roviding</del> photographi	and his enthusiastic staff at the U.S. Geological cts Office, Reston, Virginia, for their support in c and related technical support as well as working	
acilities;		
	Office of Science and Technology, Executive	
Office of the President rom the U.S. Topog Camille disaster area	nt, for his forthright and prompt efforts in acquiring raphic Command, the photographic imagery of the	
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# FOREWORD

As the media reports became available describing the extent of the devastion along Mississippi coastal areas and initial uncertainties as to details and specifics, it was almost a "reflex" to make inquiries as to (a) existence and availability of aerial coverage of the area involved, and coverage. As an indication of similar concern, several inquiries had been as to the need for and the existence of coverage.

Our first formal inquiries starting August 25 were discouraging, indicating uncertainty as to availability and requirements for same. Fortunately, these initial reports were unfounded. Further information revealed that indeed the Corps of Engineers had requested area coverage of the U. S. Air Force, presumably for area surveys, engineering works applications, rehabilitation, and relief purposes. By August 26, it had been determined that a complete set of the coverage was in Washington at the U.S. Topographic Command. Also, that NASA, Houston had utilized its Earth Resources Aircraft to flying over the area with a variety of sensor equipment (color, color infra red, and black and white photography). Steps were taken to gain access to the Corps of Engineers coverage as well as the NASA imagery. By Wednesday morning, August 27, a complete set of duplicate positive film (20 cans) had been delivered to the USGS facility at Reston, Virginia for use by those Federal agencies with needs so to use it. Similar arrangements were made to acquire copies of the NASA film. Arrangements were then made to view the material at Reston. By close of business August 27, a selection of the photo exposures for annotation and enlargement, and an initial interpretation of major damaged areas

The principal purpose in presenting this study, preliminary as it is, is to demonstrate a quick reaction capability that is available to those Fed confronted with disaster management problems of great magnitude, one photographic medium is a source of information which is capable of much of this needed information and in a fairly rapid time sense.

- 2 .

In this spirit the following illustrated report was undertaken. It does not attempt to present a detailed analysis of area or local damage effects. Several areas were chosen for analysis and illustration. Much more damage than described was visible in the photography and therefore reportable. For example, the residential areas in Gulfport and Pass Christian selected for annotation, represent large and very obvious areas of contiguous damage. Adjoining areas along the water front and further inland had suffered almost equally from the severity of flood waters and wind. More detailed interpretation would develop these areas as well.

### Photographic Notes:

USAF coverage: Mission Camille, August 21, 1969,

scale: approx. 1:27,000.

NASA coverage: (Not yet available at this writing.) Flown August 19, 20, 1969; several missions; high and low altitudes; coverage with black and white, color

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#### Gulfport, Mississippi

Exhibit A

#### Gulfport Harbor Area

Exhibit A-1

Note: 1.

- 1. '(3) beached ships 450 ft 490 ft length
- 2. Breakwater and yacht basin breached dolphins and piers; absence of small boats.
- 3. Damage and destruction of buildings on wharves and piers.
  Roughly 15-20 warehouses and other buildings damaged or destroyed.

#### Residential Area

Exhibit A-2

Beach front residential area 1-2 miles in length with almost complete destruction of housing.

#### U. S. Naval Reservation

Exhibits A-3, A-4

- 6 large warehouse buildings (550' x 110') almost totally damaged
- 4 warehouses (230' x 90') destroyed
- . 17 warehouses (185' x 40') severely damaged

_ 4 -

## Pass Christian, Mississippi

#### Exhibit B

From the photographs, it would appear that this small town along the gulf-front was almost completely washed out. Dwellings have been washed away or from foundations and deposited considerable distances away; barges are observed 1-2 miles inland, etc.

#### Residential Section

#### Exhibit B-1

An area of major destruction. Of more than 200 buildings previously standing, about 1/2 appear to have been destroyed.

### Highway Bridge

#### Exhibit B-2

Highway Bridge about 2 miles north of Pass Christian crossing Bayou Portage, was partially damaged. One span is out and damage is visible on another.

#### Remarks

The foregoing interpretation report is very cursory. As noted in the foreword, it attempts to demonstrate graphically the wealth of information in the aerial photographic imagery that is available to disaster managers, and to indicate the relative facility and rapidity with which data can be developed.

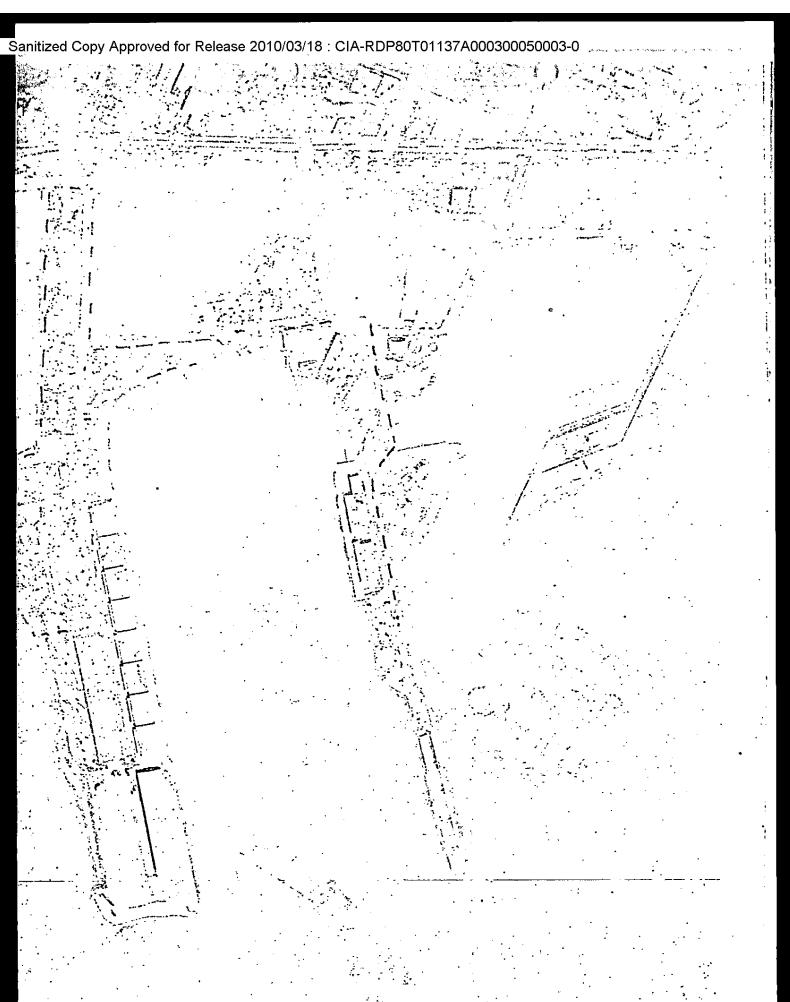
The extraction of information presents little or no problem save that required to assemble photographic interpreters and to put them to work analyzing the photography. Upon receipt of disaster coverage of an area of this magnitude, an information report could be ready for dissemination within an hour or two. Follow-up detailed reports, somewhat longer. Photographic interpretation skills are readily available within the Federal establishment in the Washington area. They are available to a lesser extent at State and local levels within regional and other offices of USDA, USGS, Corps of Engineers and others. It becomes a matter of delineating the work needed and getting it underway.

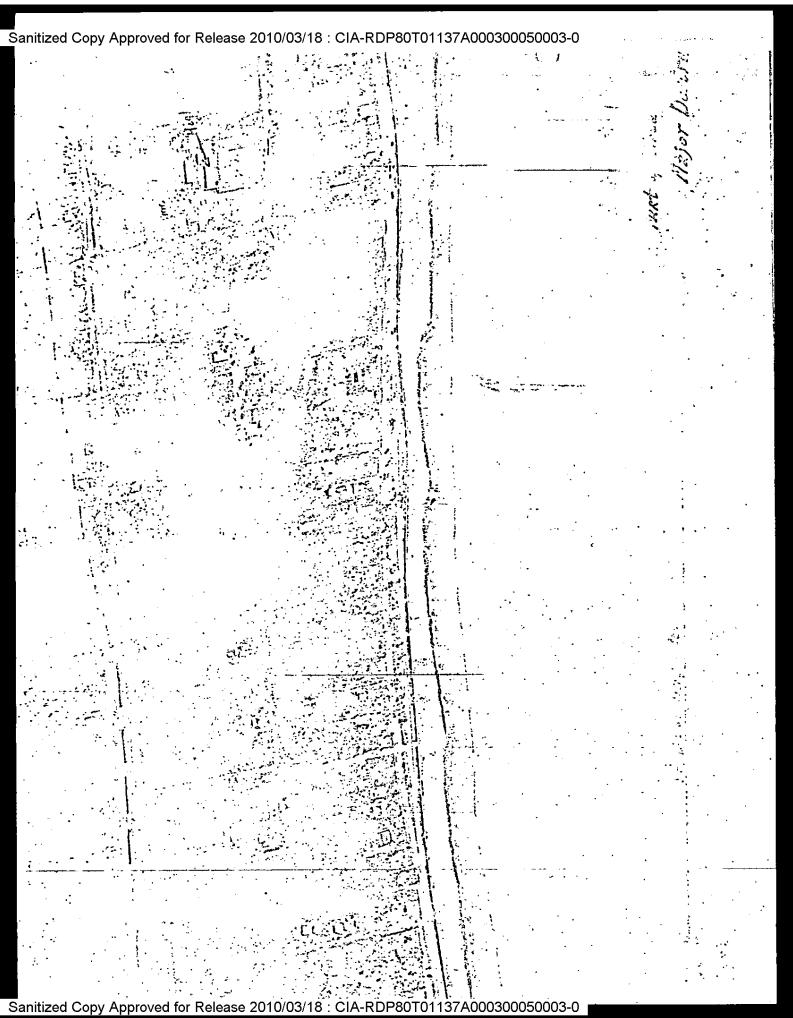
Perhaps the two most pointed observations to be made from this study are:

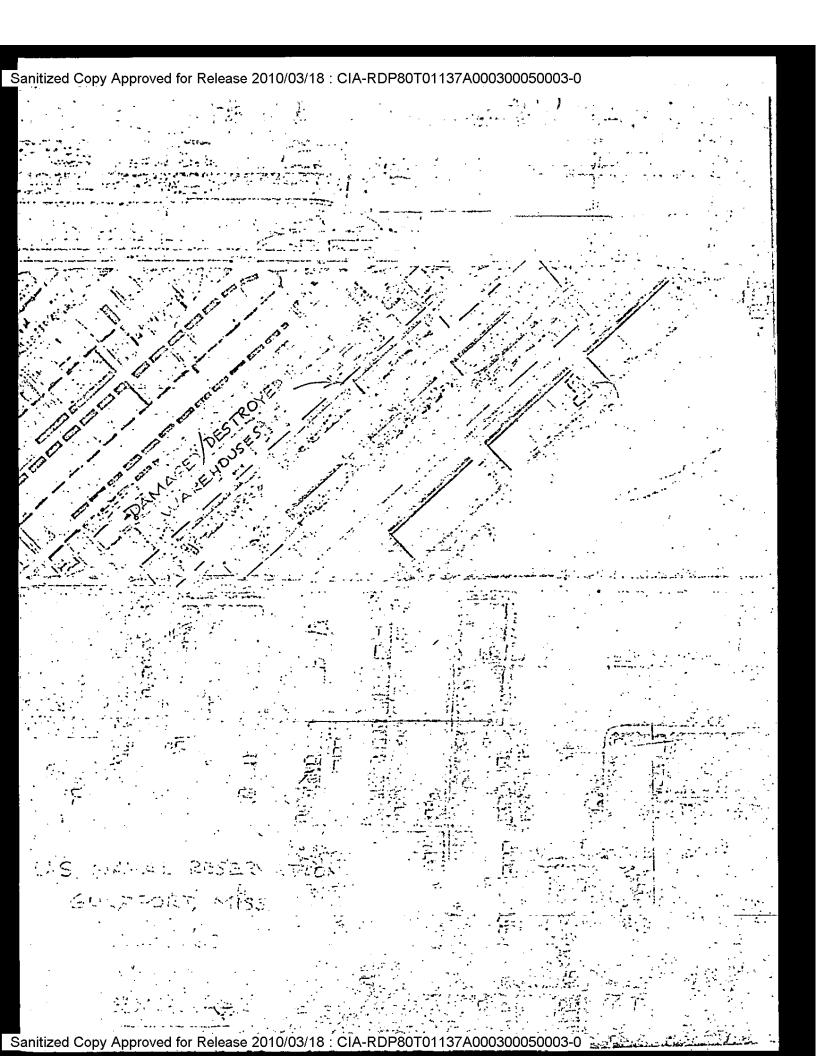
- 1. The almost uniform interest, cooperation and support in making the fullest use of aerial photographic and other sensor imagery under the disaster conditions created by Camille.
- 2. The apparent lack of a visible and coordinated effort to develop uniform requirements for disaster aerial surveys; to report on the availability of same; and the generation of a common requirement for the information contained therein.

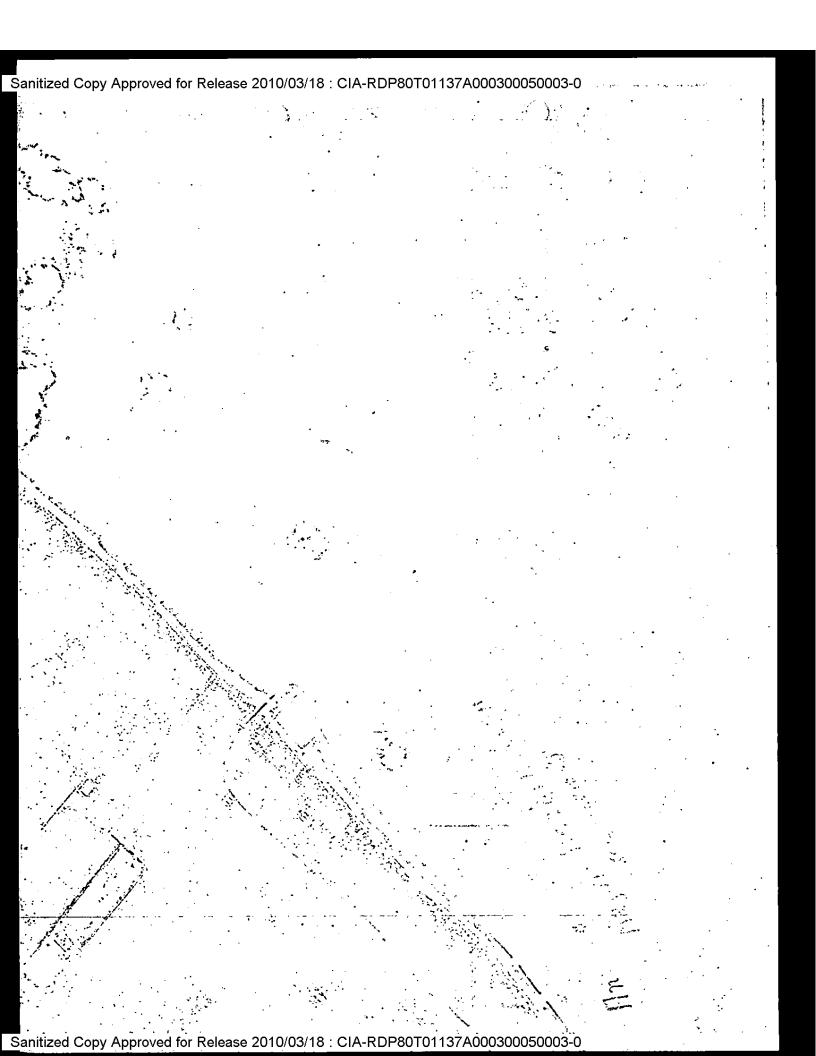
It is noteworthy that elements of the Federal establishment accustomed to utilize photographic survey information are currently discussing the establishment of formal procedures for future use in this connection. It is the opinion of the author that OEP should provide the coordination element.

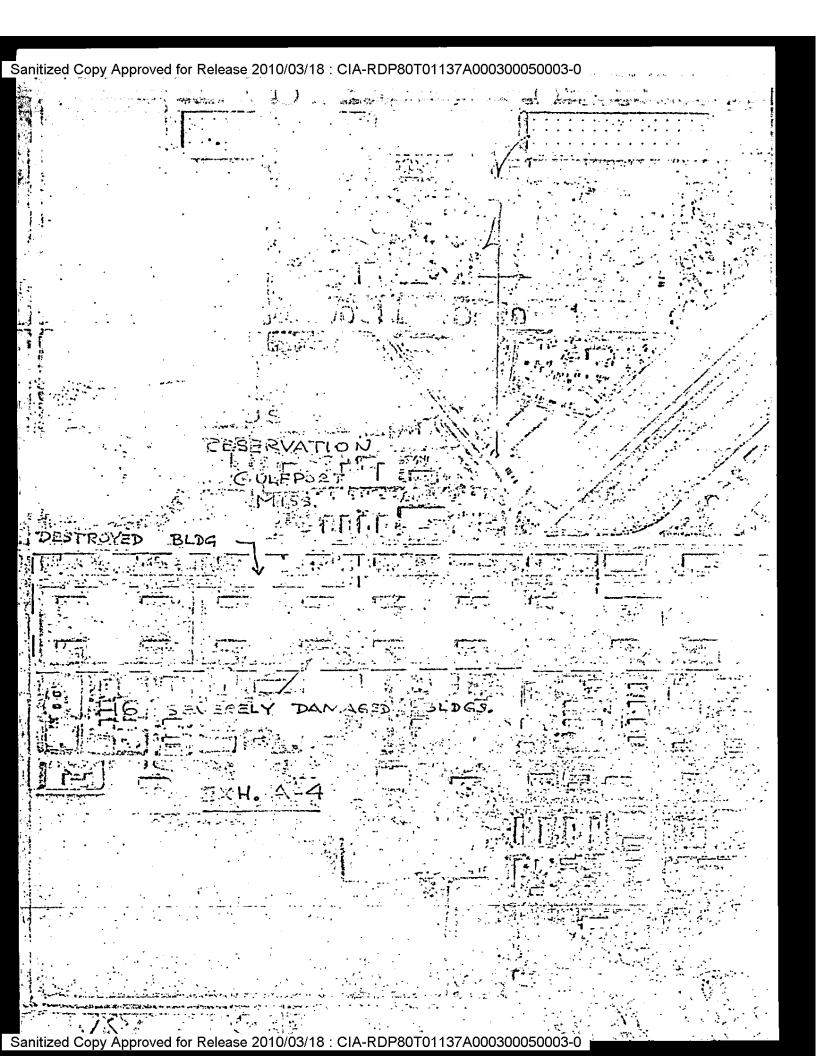


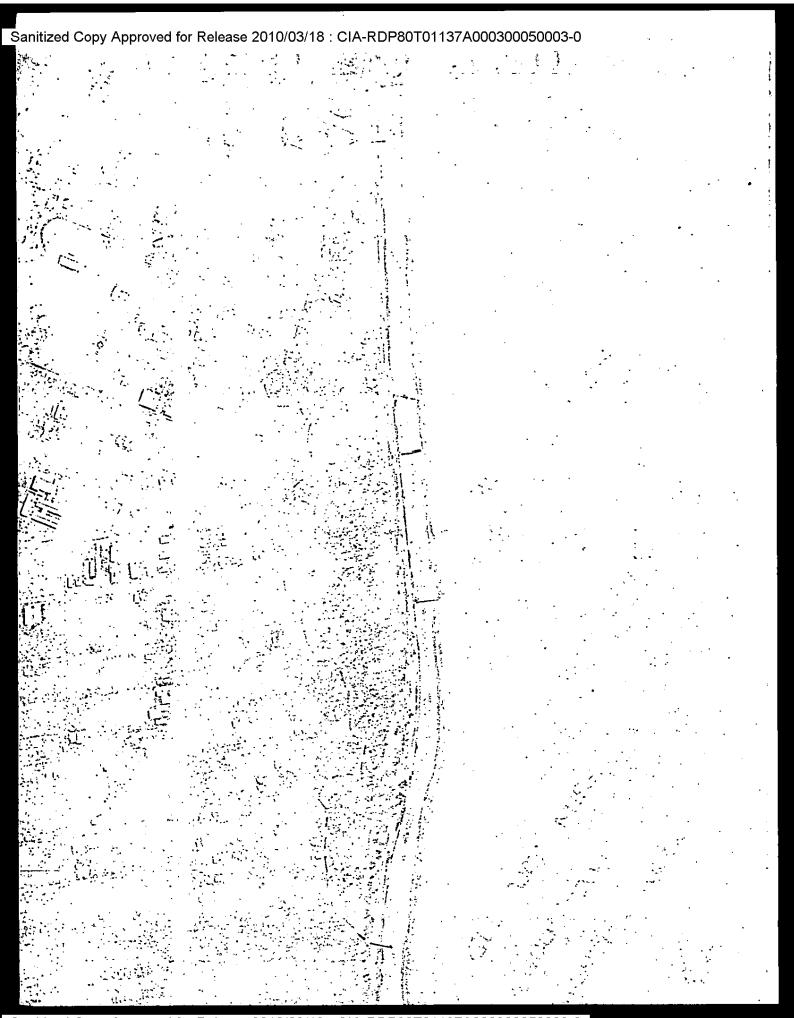


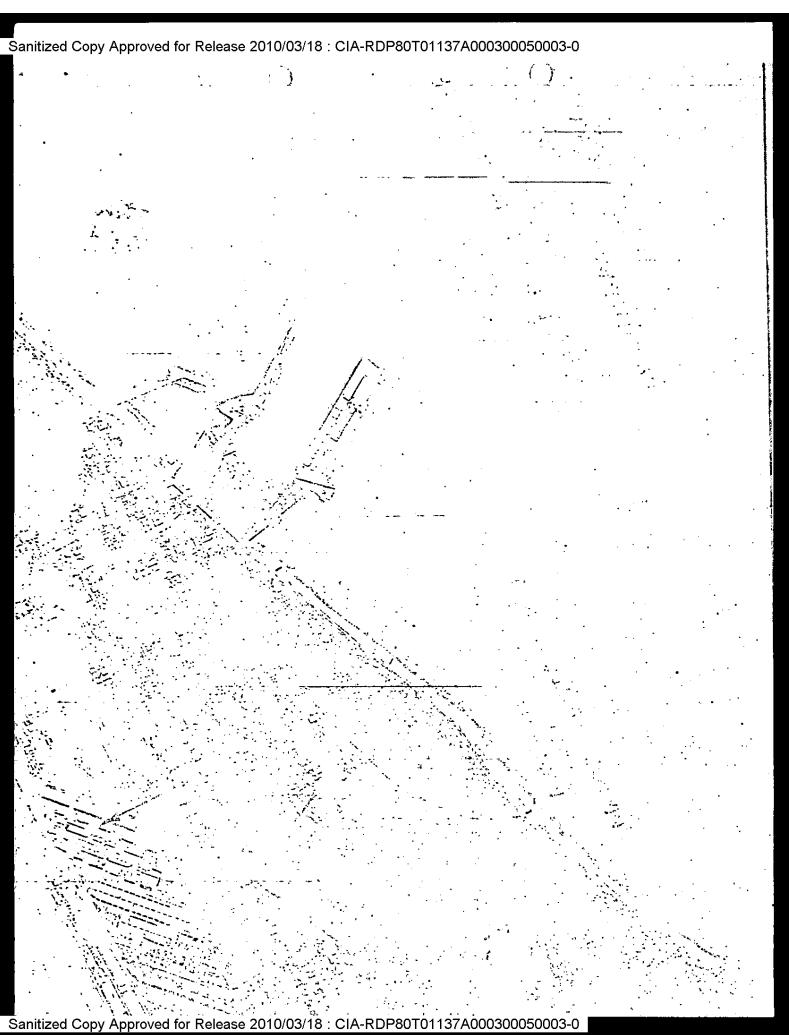












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MEMORANDUN	1 FOR THE RECORD			i. -
	ARGO Meeting, Room 208, EOB, D	ecember 9, 1969		
of NPIC. A creplacement with pend capacity by the ci	copy of the published agenda is	attached.  s first ARGO meeting as was there in his cion of how to avoice intelligence of the former process.	ting although s unfamiliar is new BOB oid duplication community's	25X 25X 25X 25X 25X
one possi for-TK Re by them in respon	raised the point at on planning for personnel, equipand other sensors (primarily important earlier suggestion that it is that area. The standard extension that area.	the beginning an pment and proceduragery) by the cive to be of USGS mention ther agencies but available our exhibit discussion was (having left Agridh resources survetation and (b) the question - explosion.	rilian agencies. considered as ned that his cleared- was not being used quipment catalogue as concluded by iculture and ey) would prepare ne next few meetings	25X 25X 25X 25X
automati	One point of interest on may project far into the PI in reality, possible. This may by contractors and, on occasi	is no the amples	s much further	2
	Four briefings were given as n		a:	
ESS	SA - Snow	• -		
-	ESSA has experimented with retermining amounts of water cont ncluded that 56' resolution was d 28' below that line. This se	ained in Show Cov needed above the	timber line	
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	and available topographical information. The flatter lands make assessment of snow volume more difficult. NPIC had assisted in the experiment to the extent of making some contact prints through thicknesses of acetate in order to degrade the resolution to approach that point where it reflects minimum quality.  Will get together with of ESSA to try to improve techniques in water/snow measurements.	
	USGS - Alaska Pipe Line	
	USGS presented a survey of a line from Prudhoe Bay on the Alaskan North Slope south through Fairbanks to the south Alaskan Shore. The line was to contain information necessary to planning a pipeline to take oil from the new fields recently discovered. The briefing entailed a rather complex use of maps (old and new), some "ancient" topographical descriptions, a variety of scales, mixed imagery, etc. The study provides the base for a ground truth survey.	,
Military.	Engineers - Civil Works Interest	
	The Engineers briefer divided an Engineer interest in high altitude imagery into three categories: Dams & Reservoirs - can use 10' resolution for location and site planning for high dams but need much greater resolution for this purpose in small dam planning. One foot contour interval needed for detailed plans. Flood Zone Damage - need photo bank (data base) for selected areas susceptible to damage - need aircraft at 6-8-10,000' to take photos for sufficient resolution (unstated) to provide sufficient detail for damage assessments. Coastal Projects - wave direction and height essential to shoreline planning can use nearly any photography from air or space. Engineers would like to build a data base of imagery over 10-12 Years to aid in such shore problems as inlets shifting.	
	NPIC - SO-242	
	gave a briefing on SO-242 consisting of the EK presentation materials. He made some prints and a roll available (a small portable light table from Navy was available). There was considerable interest shown. Bob handled the "evaluation" and "value" in good order - stating that the intelligence community was currently evaluating color for its purposes and that those present were aware that their needs were different.	
	NRO representative to ARGO, stated that NRO had set up an interagency group (would be the Naka group) to look at color	

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	including its value. As a result, the possibility of an ARGO briefing	
	on the results was discussed as likely in January or rebruary. I	
	to any intergency nesitions determining the value of color to to	
	this was said to dispel any feeling that in a month or two one would	
	find a single pat answer to a multiplicity of need.	
	6. A final and serious "although seemingly facetious" note The	
	U.S. Government (per is contracting with the Mexican government to sense mariuana and then destroy it. The by-product might be the	25)
	ability to sense opium poppies under SECRET arrangement with Turkey.	
	$\cdot$	
	7. The next meeting will be held January 28th, 1970 at 9:30 A.M. in Room 208 EOB.	_
	THE ROOM 200 LOD.	2
	Planning, Programming, & Budgeting Staff	·
	NPIC	
	Attachment:	
	Memorandum For ARGO Committee Members	
	Dated - November 26, 1969 Subject - Change in ARGO Meeting Schedule	
	S E C R E T	
	Distribution:	
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### EXECUTIVE OFFICE OF THE PRESIDENT

## OFFICE OF SCIENCE AND TECHNOLOGY

WASHINGTON, D.C. 20506

ATTACHMENT TO

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November 26, 1969

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MEMORANDUM FOR ARGO COMMITTEE MEMBERS

SUBJECT: Change in ARGO Meeting Schedule

The purpose of this memorandum is to confirm December 9, 1969 as the date for the next ARGO meeting. The time and place of the meeting remain unchanged at 9:30 in Room 208, E.O.B.

The agenda for this meeting will be:

- Discussion of items pending from October 1, 1969
   ARGO meeting OST
- 2. Snow Cover Presentation ESSA
- 3. Porter Range, Alaska Study USGS
- 4. New material NPIC
- 5. Civil Works interest in Remote Sensing OCE

This document consists of _____page.

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MEMORANDUM FOR THE RECORD

SUBJECT: ARGO Meeting, 28 January 1970

- 1. The ARGO meeting was conducted by PSAC Staff since Director or ARGO, was on a trip.
- 2. The primary purpose of this meeting was to allow NASA to brief on the ERTS satellite system and define the outputs from that system. They (NASA) presently plan to utilize about 35,000 sq. ft. of floor space to house the computers for this single effort.
- 3. The system includes a High Resolution Television System (HRTS) and a 4-channel Multispectral Scanner (MSS). Both these systems will provide digital information back to the three ground receiving stations within the continental United States. These telemetry stations are at Greenbelt, Md., Corpus Christi, Texas, and on the West Coast (I missed the name of the third station).
- 4. Both imaging systems will be long-life systems that will provide repeated coverage of the United States on a scheduled basis.
- 5. Either General Electric or TRW will be the software contractor for this system and all data will be transferred to Goddard for handling.
- 6. The second major item of interest was the establishment of a study group to determine a plan for national disasters.

  of NASA was named director of the study group, and ARGO is requesting each of the participating agencies to name committee members by 10 February 1970. The first meeting of the study group will be immediately after the members are named.
- 7. The study group will recommend to ARGO a plan for generation of all data necessary for national disasters. This will include (a) data acquisition such as flying photography, tasking the classified systems, integration of data into a single data base; (b) data reduction including tiger teams for interpretation; (c) analysis of the data such as mapping, detailed reporting and definition of problem areas; and (d) recommending plans for action by other government agencies as well as State and local governments. It was not clear as to whether NPIC would have a member on this study group or not.

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SUBJECT: ARGO Meeting, 28 January 1970

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	and anoth with the need of didorstances
	of nre- and nost-preparation that is
the NASA group in the a	ion of imagery. It was suggested that the
necessary for exploitat	old in NPIC for the express purpose of giving
next ARGO meeting be he	ild in NPIC for the caproof purple involved
the entire group a bett	er idea of the amount of technology involved
in the door-to-door ope	eration of an exploitation system. It was
involved as well as the	e time required in R&D would be of benefit to
the group.	

9. This next meeting is to be held at NPIC the first week of March, and should include briefings on data handling, computer interfaces, and research and development, as well as data flow and analysis generation.

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26 February 1970

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MEMORANDUM FOR THE RECORD

SUBJECT: Steering Committee/ARGO Meeting, 28 January 1970

1. and I attended the Steering Committee/ARGO Meeting on 28 January 1970. The meeting was held in Room 203 of the Executive Office Building. chaired the meeting in the absence of

2. The first item of business was a status report on the proposed study group (presented at the October 1969 meeting) concerned with identifying the skills, personnel and equipment needed for national disaster support. It was announced that

OEP, will head the group which is in the process of being formulated. The member agencies of ARGO were asked to name, by 10 February 1970, a representative from their respective offices. This study group will investigate the possibility of using the Reston, Va., TKH facility as a home for the exploitation effort and will pass the hat among the ARGO member agencies to obtain, by donation, the required personnel committed to disaster support on a first priority basis. stands an established means of imagory collection, but the interpretation phase of the program is lacking. Establishment of a small component of photographic interpreters, foresters, geologists, atc. prepared to act i modiately as required by a disaster sutuation, is the goal of the study group. Such a complement will work under the auspices of an interagency agreement. It was mentioned and agreed that the type of information needed would be disaster dependent and that the analyst component will also be concerned with data collection from other than reconnaissance sources. The study group will also be concerned with the compilation of a pro-disaster data base. Primary interest of the analysis group will be the establishment of procedures to provide instant analysis of disaster conditions as an input to the decision makers so they may take immediate action in providing disaster relief. Although the agencies themselves feel they did a

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SUBJECT: Steering Committee/ARGO Meeting, 28 January 1970

good job in providing disaster situation analysis and aid following Hurricane Camille, the public is criticizing the national effort as being slow and disorganized. It is the intent of the study group to have a plan of action prepared by the time of the next ARGO meeting and to have the plan implemented before the rapidly approaching spring flood and storm season.

presented a report on the status of the satellite coverage of Chile. This had been requested to furnish ground water information. He reported that KH-4 coverage had been obtained but due to adverse weather conditions the amount of good coverage was limited. A memorandum outlining the results of the photographic interpretation analysis has been issued from NPIC.

4. The ARGO was then briefed on the data handling aspect of NASA's Earth Resources Satellite Program (ERS). The payload will consist of a High Resolution Television system (HRTV), a Four Channel Multispectral Point Scanner, and a ground station data monitoring system. The HRTV will provide continuous coverage of the United States in 100 mile (ground distance) formats at ground resolutions of 300 to 400 feet. Approximately 400 frames will be received in on 18 day period. The data processing equipment, however, must be capable of handling three HRTV images every 25 seconds when the satellite is on acquisition station over the United States. Multispectral Scanner will provide imagery collected at the prescribed bandwidth, howover, the resolution will not be as good as that obtained by the HRTV. Ground stations located throughout the US will sense such information as temperature, humidity, water level, etc. and transmit this data to the satollite which in turn will retransmit the information to the tracking station along with the video/scanner data. The satellite is capable of servicing as many as 1000 ground stations. Interrogation/control of the satellite will be accomplished by tracking stations at Groenbelt, Mazyland, Fairbanks, Alaska, and Corpus Christi, Temas. The information will then be transmitted to NASA's Goddard Space Center (Greenbelt, Md.) for data processing. NASA has allocated 35,600-square-foot of floor space to house the ERS data processing and operations control center.

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SUBJECT: Steering Committee/ARGO Meeting, 28 January 1970

Two methods will be employed to process the imagery. The entire take of both video sensors will be bulk processed with about ten percent of the total coverage being precision processed to accommodate specific user requirements. The two methods differ in that the precision processed material will be rectified, of possibly better resolution and, in the case of the multispectral scanner, registered. The final output generated from the video sensor data will be a film print. NASA will record and store the video and multispectral point scanner image information on tape for about two years. The film (hard copy) print will be indexed and retained by NASA indefinitely. It appears now that the film print will receive the primary usage, however, participants may also request a data tape record of the coverage. Psuedo-real-time use of the video sensors will be possible but the resolution and orbital information may not be as good as available a short time later.

The ERS Program is extraordinary in that the output will be available to government as well as private and commercial users. Investigative proposals may come from almost anywhere, individual scientists, institutions, research foundations, industry, etc. The acceptance of proposals will be made by 15 April 1971. NASA has divided the usors into two categories. Prime users, who will receive their film copy about 18 days after acquisition, will be government agencies. Private and commercial investigators are considered secondary users and will receive their film copy at a later date, about 30 days after acquisition. Domestic satellite video coverage will thus be available to almost any person or group on a secondary basis. In order to properly process the data, good orbital information is required and is expected to be available from the spacecraft by means of a narrow band channel. Some thought is being given to incorporate weather information with sensor programming to provide better utilization of the acquisition capability.

Although the satellite response is primarily real-time, two onboard recorders are incorporated in the system to provide a repository for acquisition data when the tracking stations connot contact the bird. This will be especially useful for obtaining information from oceanographic areas beyond our coastal regions. During acquisitions

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	SUBJECT: Steering Committee/ARGO Meeting, 28 January 1970	
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•	over the United States, the data will be continuously monitored	
	in order that improper commands can be rectified and parameters	
	updated to better fit user requirements.	
	It was mentioned that it would be valuable if the photography	
	obtained in the NASA underflight program (aircraft photography)	
	could be indexed and made available for use as a data base for	
•	the ERS Program imagery. Funds, however, are not available to support this effort.	•
	of USGS, who heads a group of about 30	2
	employees at the Reston, Virginia facility, announced that they	
	were having reasonable success in domestic mapping utilizing	
	KH-4 coverage but have come up with numerous small holiday areas	
	scattered throughout the United States. His crew has approxi-	
	mately three or four months of work left before they run out of	
	TK coverage and he questioned about the availability of domestic U-2 coverage of the holiday areas. would	2
	of domestic U-2 coverage of the holiday areas. would like vertical coverage taken with a framing camera employing a	2
•	six-inch lens at U-2 operational altitudes. hed	2
•	been advised of this pending inquiry and at his request I had	2
	looked into the problem. I informed that since most	2
	of the U-2 domestic flights are for test purposes only, the DPs	_
•	(if any) and the ONs are not permanently retained. The test	
•	footage still in existence is difficult to locate because individuals	
•.	concerned with a particular test effort usually keep the material	
	for their own purposes. I pointed out, hovever, that since U-2	
	test flights are made periodically, it may be possible to obtain the needed coverage upon his request through the proper channels. The	
	SR-71 also conducts test flights which might be scheduled to obtain	
	the coverage, however, the SR-71 is restricted in its flight path	
	and may not be capable of employment for this effort.	2
-	request for support was channelled to of the MCGG	$\bar{2}$
	working group as he is in the best position to check into possible	
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	SUBJECT: Steering Committee/ARGO Meeting, 28 January 1970	
	can do	:
•	coverage. We will now wait and see what	•
	before we take any action.	
	6. In keeping with present ARGO emphasis on data processing, suggested that the next ARGO meeting be held	
	sate of the members to the	
	suggested that the next ARGO meeting to the suggested that the next ARGO meeting the suggested that the next ARGO meeting the suggested that the next ARGO meeting to the suggested that the next ARGO meeting the suggested the suggested that the next ARGO meeting the	
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	and how the data is obtained in a managed to accompany	
	mission analysis. The has informed me should be a single of the single o	
	February or early March.  the meeting will be at NPIC on 9 March 1970).	
	7. A few days following the last ARGO meeting,  7. A few days following the last ARGO meeting,  From the Department of Agruculture called to compliment us on the  from the Department of Agruculture called to NPIC. He was especially	
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	"secrets" so he might impact the procession our "secrets" in this area was a Since classification concerning our "secrets" in this area was high barrier, I was happy to pass them on. I informed him that the high barrier, I was happy to pass them on. I informed him that the high barrier, I was happy to pass them on. I informed him that the high quality of our briefing materials, including viewgraphs is the result quality of our briefing materials, including viewgraphs is the result quality of our briefing materials, including viewgraphs is the result quality of our briefing materials, including viewgraphs is the result quality of our briefing materials, including viewgraphs is the result quality of our briefing materials, including viewgraphs is the result quality of our briefing materials, including viewgraphs is the result quality of our briefing materials, including viewgraphs is the result quality of our briefing materials, including viewgraphs is the result quality of our briefing materials, including viewgraphs is the result quality of our briefing materials, including viewgraphs is the result quality of our briefing materials, including viewgraphs is the result quality of our briefing materials.	
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	this was our "secret" but was hoping to learn a short cut method this was our "secret" but was hoping to learn a short cut hat we achieve our high quality. I expressed the Center's regret that we achieve our high quality. I expressed that should he find one would be don't have such a short cut but asked that should he find one would be don't have such a short cut but asked that should he find one would be don't have such a short cut but asked that should he find one would be don't have such a short cut but asked that should he find one would be don't have such a short cut but asked that should he find one would be don't have such a short cut but asked that should he find one would be don't have such a short cut but asked that should he find one would be don't have such a short cut but asked that should he find one would be don't have such a short cut but asked that should he find one would be don't have such a short cut but asked that should he find one would be don't have such a short cut but asked that should he find one would be don't have such a short cut but asked that should he find one would be don't have such a short cut but asked that should he find one would be don't have such a short cut but asked that should he find one would be don't have such asked that should he find one would be don't have such asked that should he find one would be don't have such asked that the find one would be don't have such asked that the find one would be don't have such asked that the find one would be don't have such asked that the find one would be don't have such asked that the find one would be don't have such asked that the find one would be don't have such asked that the find one would be don't have such asked the find one would be don't have such asked that the find one would be don't have such asked the find one would be done would be	į
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	MEMORANDUM FOR THE RECORD		
•	SUBJECT: Meeting of the Natio	201 Disaster Support	Task Group
•	SUBJECT: Meeting of the Natio	mi bisastor support	
		· •	•
	1. The initial meeting o	f the National Disas	ter Support Task
	Group was convened at 1400 hou facility in Reston, Virginia.	Mr. Otto Guthe was	present for CIA
	and I was present for NPIC.	ther attendees were:	·
•			
•			
•			
	2. After	velcomed the group to	o the Reston USGS
	Facility, by reading the letter written	, Committee Chairman to the members of t	, began the meeting he National Disaster
	Support Task Group by	A CODY OF TH	at letter is
	attached. As stated, the aim altering system in order to p	renare for disaster	coverage acquisition,
	locate sources for obtaining	the needed coverage,	formulate an
	interpretation component and for both raw and analyzed dat	a. ment	ioned that all
•	internal OEP group would be of significance of which was not	onducting a parallel	effort, the
	Task Group will have a plan of	f disaster support i	mplemented
	•		
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Espirited From automoti down radiaz and		e , as pro- more as is to the second of the	
conveilibalien	4 4 9 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	~ : ···································	

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	a section for the contract of	
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	SUBJECT: Maating of the National Disaster Support Task Group	
	Old Lot Value - B	
	the moody in six	
•	by the spring flood season. This means we must be ready in six	-
	to eight weeks.	
anappl	Centers' was presented by	:
	The state of the second of the	
	is the group that established, for Mayor washington, the command	
,	was their contention that within the Civil Defense network are	
	established command posts which could selve in a stablished could selve in a stablishe	
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	of them for non-military emergencies. The point was mersonnel	
	of them for non-military emergencies. The point was made of them for non-military emergencies. The point was made of them for non-military emergencies. The point was made of them for non-military emergencies. The point was made of them for non-military emergencies. The point was made of them for non-military emergencies. The point was made of them for non-military emergencies. The point was made of them for non-military emergencies. The point was made of the point was made of them for non-military emergencies. The point was made of the point wa	
	a real-life exercise.	
	Regarding the establishment of a national disaster support	
	Regarding the establishment of a national distribution of interested program, it was IDA's opinion that a small nucleus of interested persons was needed to start the ball rolling. It was pointed persons was needed to start the ball rolling. With this in mind.	
•		
	the first problem is to determine whom the disastor office	
	is to be tailored to. It appears that this is Director of the Office of Emergency Preparedness, who receives	
	his reponsibility from the President.	
	to the start of the survey our own group to determine which	
•	action should be established and identify provided by	
	a communications network, delegation of responsible	
	authoritative command chain be formulated.	
	announced that since the advent of	2
	satellite photographic reconnaissance, a total of 40 to 45% of the	
	US has been imaged on 95% cloud free photography. To zero that	
•		
	is admirable, but not very practical until future satellite systems come into their own. This coverage is to serve as a data base	
	for the analysis of disaster situations.	

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	· distribution and dist	
	SUBJECT: Meeting of the National Disaster Support Task Group	
·	requested that the Support Task Group members consider, prior to the next meeting, the availability of the following resources within their own agencies.	25X
	nets?	
	b. What procedures are necessary to activate-these nets? If special action is required, what is the cost?	,
	c. What authority is required for network activation?	
	d. Once an emergency situation is declared, what latitude of agency action will be permitted?	
	e. Since different disaster situations require different methods of analysis and action, it must be determined to what degree each agency will participate per specific type of emergency. This tasks each member with determining what types of disasters his agency has interest in and will actively support. This is directly related to agency functions and responsibilities.	
	The next step is to classify disasters as to type, marry this with agency interest/responsibility and determine the required action. This done, a plan of attack and mutual support will have been established.	
	spoke on a retrospective look at the Federal action taken to combat the devistation of Hurricane Camille. In order to ascertain the extent of damage, the USAF flew a reconnaissance mission to acquire the imagery, interpreters at Reston, Va. accomplished the readout and the information was forwarded to the President. On the surface, this appears to be a simple,	25X1
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<u> </u>		25X

	The state of the s
	SUBJECT: Meeting of the National Disaster Support Task
	Group
	•
	straightforward, efficient approach. However, when one looks into
	A 1 -1 D-WITT A ALCOCANA GEOTETATION PULLUTUS CONTROLLORS GEOTETATION
	as Dent of Agriculture, NASA, and Corps, or Engineers, each had
	coverage flown resulting in a duplication of effort.
,	mentioned that in providing the UTITE of intergency Trepared to the requested coverage, the USAF employed a panoramic camera system
	C. II Alex charad that brokessill and brinches of the acceptance
	t t - t line accomplished in a time IV manner and the intermeter the
•	The same of one procedure to the first of the procedure of the same of the sam
	we must address is - Who is going to get what to whom when.
	7. Concerning the role of CIA and NPIC in supporting the
	The state of the s
	I had and cotod that We wall and Idalii wide up watered
	reneared agencies have available as a course of action prior to
	any commitment of CIA/NPIC resources. The next meeting is senerally
	at 1300 hours at Reston, Va. on 9 March 1970.
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	Section I
	Image Evaluation Branch
	APSD/TSSG/NPIC
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February 9, 1970

TO:

Members

SUBJECT: National Disaster Support Task Group

The attempt to support Hurricane Camille damage assessment by use of aerial photography demonstrated pointedly the need for a coordinated interagency plan for the efficient collection and dissemination of imagery and information to support national disaster applications. During the Camille disaster overlapping photography was collected without coordination by the Corps of Engineers, U. S. Air Force, ESSA, NASA and others. In addition to the redundant effort in collection neither the photography nor derived information could be made available to national planners nor local officials, both Federal and State, in a sufficiently time-urgent manner.

As a result of this experience I am recommending that a task group be formed to achieve implementation of a coordinated interagency plan for the collection and dissemination of photography and related information in support of national disasters; I believe that such a plan should be drawn up and tested as soon as possible. The spring flood season might furnish a suitable opportunity for the testing of this plan.

In an effort to meet this goal of a coordinated plan by Spring 1970,

Director of the Office of Emergency Preparedness, at 25X1

my request, has nominated

as the Chairman of the Task Group. In order to commence this study as soon as possible I would appreciate designation of your representatives to this panel by February 10, 1970, so that we may soon after define the scope and duration of this important matter. It is anticipated the panel's first meeting will be February 16, 1970.

While the need for a coordinated plan for national disaster is urgently required now, the benefits of such a mechanism of coordinated agency planning are also applicable in a routine way in the broader earth resources program. I would expect that the procedure worked out to use efficiently the imagery acquired through current channels would be considered as

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a model of the data reduction concept for the earth resources program. Later, I believe we will wish to consider as appropriate such matters as the joint agency staffing of a task group facility locally and nationally as required; automated data processing systems; large volume data storage, retrieval and dissemination system; and others.

I welcome your advice and cooperation in this matter.



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SECRET

APSD/IEB-046/70 19 March 1970

MEMORANDUM FOR THE RECORD

SUBJECT: Steering Committee/ARGO Meeting, 9 March 1970

1. The NPIC hosted the 9 March 1970 meeting of the Steering Committee/ARGO. Those in attendance were:

on the Center's data handling methodology was presented by Messrs.

Following the formal briefing the group was taken on a tour of the Photogrammetry Division, the Computer Area and the Photographic Laboratory.

3. Because of the National Disaster Support Task Group meeting scheduled for 1330 hours the group was rushed and the NPIC briefing terminated at 1200 hours. Subsequent comments have indicated that the ARGO members are appreciative of our presentation and a re-run is scheduled to be given on 27 March 1970 for Assistant Secretary/Commerce,

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APSD/TEB-046/70 ---

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SUBJECT: Steering Committee/ARGO Meeting, 9 March 1970

4. The date, time and place of the next meeting have not yet been announced.

NPIC/TSSG/APSD/IEB/Section I

Distribution:

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•	·	20 March 1970	
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	MEMORANDUM FOR: Chief, APSD/T	SSG/NPIC	
	SUBJECT : Assistance of		
	: Assistance of		
	a see approximate the same as a second		
	1. The nurpose of this m	emo is two-fold. First, to express	
	appreciation for the efficient	technical support provided by	
		second, to call to your attention the	ŕ
	present assistance force on natural diasters.	is giving a special ad hoc ARGO task	
	Total on material arabets.	· ·	
		ed technical assistance on ARGO	٠,
	and general technical function	rading film, briefing on color film s related to handling a mission,	
	answering many technical quest	ions are included. He has performed	
	most effectively.		
	3. At present ARGO is co	nsidering, via a task force method,	
	the use of imagery in support	of coordinated governmental action in	
	meeting natural disasters. As	of this date, it is estimated that	
	there will be about four more assistance to this task force	is in the context of technical support	
	under guidance of Dr. Otto Gut DCI's advisor to ARGO.		•
	4. Your cooperation in t	his arrangement is very much appreciated.	
	it ions proposation and t	arrangement to total moon approprietations	
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# EXECUTIVE OFFICE OF THE PRESIDENT

OFFICE OF SCIENCE AND TECHNOLOGY

WASHINGTON, D.C. 20506

Tila

March 20, 1970

### Dear Art:

I wish to express to you and your staff my appreciation for the excellent briefings and tour provided the ARGO Steering Committee on March 9, 1970.

I feel that the presentations were very informative and provided the members of the Steering Committee an understanding of the size and complexity of the problems associated with data management prior to, during, and after an operation in order to transform information into solved problems.

Sincerely,

Mr. Arthur Lundahl Director, NPIC Headquarters CIA Langley, Virginia

20 March 1970-

Copy 3

MEMORANDUM FOR THE RECORD

SUBJECT: Meeting of the National Disaster Support Task Group

- 1. The second meeting of the National Disaster Support Task Group was convened at 1330 hours on 9 March 1970 at the USGS TK Facility, Reston, Virginia. The agenda of the meeting follows:
  - A. Discussion by each member of:
    - (1) Pertinent available resources
    - (2) Current emergency reporting procedures
    - (3) Activation mechanisms
    - (4) Command nets
  - B. National Disaster Support System Preliminary Draft
  - C. Next meeting
- 'round robin' fashion which revealed few noteworthy points. It would have been much more worth-while had this exercise been accomplished on paper so that someone could have interrelated the various agency inputs. Such things as the USDA telephone contacts with their field representatives throughout the U.S., their teletype link with most state capitols, ESSA's 33,000 civilian and military meterological observers and their teletype communication to all weather stations were mentioned. _______ mentioned that it takes ESSA up to two hours following the occurrence of an earthquake to determine its magnitude and epicenter location. The same time frame applies to tsunamis.
- Dr. O. Guthe asked the Task Group if it would be possible to anticipate disaster situations and specific areas where satellite coverage will be most likely needed to serve as a data base. A request for this coverage should then be made through channels and the intelligence demands would govern the propriety of its fulfillment.

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	SUBJECT: Meeting of the National Disaster Support Task Group	
	He also said that we sould massible meanible according to the said	
	He also said that we could possibly provide coverage on a 'target of opportunity' basis. The committee felt this approach was feasible and should be implemented.	
	expressed concern with where aircraft	
	disaster photography might be processed and printed. The USAF operates under the idea that their obligation for providing	
	reconnaissance photography terminates with the processing and	
	single printing of the negative. A processing site(s) must be	
	determined so that additional printing requirements will be handled in an expedient manner. Possible sites include TOPOCOM,	
•	Westover, and NRTSC. The NPIC was mentioned but dropped as a possibility.	
	3 presented, for criticism, a flow chart of	
	his idea for a dîsaster support system. He described his proposal	
	but time limitations and the system complexity necessitated that comments be deferred until the next meeting. In conjunction, however,	
	it was suggested that since different disasters require different	
	action with different agencies involved, a matrix presenting Disaster Type vs. Action Required be drafted. A second matrix	
	would display Disaster Type vs. Agency Involvement/Concern. The	
	matrix idea appears to be the most sound approach yet presented.  It is to be continued at the next meeting.	
	4. A good deal of rather warm discussion concerning the date of the next Task Group meeting arose. The meeting proposed for	
	17 March is to be concerned with how any disaster situations, due	
	to spring flooding, can best be handled. Neither representative from	
	the Office of the Corps. of Engineers will be able to attend this meeting and since the OCE has a prime involvement in flood activity,	
	they requested that the meeting be postponed until the following	
	weekfelt that more could be accomplished by adherence to a schedule of weekly meetings with the understanding that all	
	members might not be present at all sessions. He requested that the	
	OCE representatives prepare a paper containing their ideas for	
	presentation in their absence. This seemed to be a satisfactory solution.	
	Continuing to meet at Reston was brought up by who suggested we find a place in town closer to everyone's offices.	
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•	location su	uch as the EC	)B was menti	oned and a r	y of a suitable delocation vote	
	location su taken. An tinuing to an aid to 1 1300 hours at 1700 hou	uch as the EO almost unani meet at Rest USGS security so that we m urs as had be	OB was menti mous prefer con. It was personnel, might adjour cen the prac	oned and a rence was in suggested had begin our by 1630 hotice for thi	elocation vote favor of con- towever, that as ar sessions at ours rather than and the previous	
	location su taken. An tinuing to an aid to 1 1300 hours at 1700 hou	uch as the EO almost unani meet at Rest USGS security so that we m urs as had be	OB was menti mous prefer con. It was personnel, might adjour cen the prac	oned and a rence was in suggested had begin our by 1630 hotice for thi	felocation vote favor of con- lowever, that as ar sessions at ours rather than	

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	23 March 1970
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	MEMORANDUM FOR THE RECORD
	SUBJECT: Meeting of the National Disaster Support Task Group
•	1. The third meeting of National Disaster Support Task
	Group was convened at 1330 hours on 17 March 1970 at the 3000
	facility in Reston, Virginia.
	2. A slight mix-up concerning meeting time was encountered since the time decided upon at the previous meeting had been
	1300 hours while the minutes of the meeting had stated 1300 hours. Changing to
	Henceforth, all meetings will begin at least defeated by a member an in-town location was again mentioned but defeated by a member vote. We will continue to meet at Reston.
	USGS, presented a briefing on the
	resident which Poston currently holds and which
	will be employed as a data base for disaster analysis. Conspicuously missing was coverage of the state of Florida. Holiday
	areas also exist for about one-third of the out touse suggested that
	the Support Task Group direct, through Akoo, a request to do
	It is hoped that since the request for the kn-4 coverage works
	c it he more favorably considered than the prosoner
	standing general request for holiday coverage. KH-4 acquisition of those areas would also serve to fill requests by ESSA, TOPOCOM,
	Interior Dept. and USGS. An illustration of now the X 2 camera
	flown in a U-2 aircraft might have been employed to provide development of the Lamba Diver Virginia flood situation following Hurricane
	Camille was presented. was requested to injusting the U-2s based at Tuscon, Arizona;
	Edwards AFB, California; and McCoy AFB, Florida, for obtaining disaster photographic coverage.
	4. In order to more effectively accomplish our goal, had prepared a plan for establishment of five committees within the

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SUBJECT: Meeting of the National Disaster Support Task Group

by all members present. Each committee is to investigate a specific area of responsibility as follows:

Committee No. 1 - Identify platform resources (ie. ascertain what aircraft, camera systems, and/or sensor systems are available for disaster use.)

Committee No. 2 - Identify the tasking channels between civilian and DOD commands and also between civilian agencies. These channels are necessary for requesting disaster coverage.

Committee No. 3 - Identify sources of photographic interpreters which could be tasked with disaster situation analysis.

Committee No. 4 - Identify the communications network for passing information to the President and/or other interested parties.

Committee No. 5 - Classify all disasters and identify the type of coverage needed.

Resources necessary for the achievement of our goals are available, what is needed now, is coordination. Once our Support Task Group has established a working procedure, a small secretariat comprised of Task Group members will be maintained to administrate the procedure. Remaining Task Group members will be available on call for additional support. The question was raised concerning the use of commercial aerial photographic companies in obtaining disaster coverage. Since, however, our prime need, in a reconnaissance supplier, is a quick response time (occasionally within hours of the disaster) the DOD units are better organized and equipped to satisfy our requirements.

5. Snow conditions in the New England area are being monitored by ESSA since the present snow pack is a potential source of heavy spring flooding. The recent snow storm which deposited from 15 to 30 inches of wet snow in the North Dakota - Minnesota region is also of great concern to ESSA as a rapid spring warming could produce

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SUBJECT:	: Meeting of the Na	tional Disaster	Support Task Gr	oup	
• .		was asked id	photographic co	yerage	25
severe :	flooding. e areas would be of	· · · · · · · · · · · · · · · · · ·	time the SHOW GUI	INTOTOTIO	20
He stat	ed that snow depict a	ind water temper	es could not pres	sently	
and_tha	t photography, even	in he would do	alve further into	o the	
problem	to determine in pin	July 1 ma	owered 1109-1 m	ission	
Dr. Ott	to Guthe mentioned Co	at these areas	and 1109-2-still	may.	
materia <u>T said</u>	that I would check	the coverage an	d advise	ed the	25
	concerning the	se areas. (Ini	s was accomplish		25
follow	ing day -[RSB]).		the prope	er command	05
. 6	que ls by which he could	stioned me cond	cerning the properement with NPIC.	(1110	25
channe follow	ing day I conferred	with	on this p	ooint and	25X
notifi	ed of the	apprepriace of		_	
7	. The next Disaster	Support Task	Group meeting is	scheduled	
for 24	March 1970.				
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	EXECUTIVE OFFICE OF THE PRESIDENT	*,
	OFFICE OF EMERGENCY PREPAREDNESS TSSO / APS D WASHINGTON, D.C. 20504	سماء ("
	Landbruck .	18.
Date:	March 30, 1970	OK
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Subject:		
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To:	NPIC	
	Central Intelligence Agency	
	Washington, D. C.	
	Under separate cover three rolls of multispectral imagery of	
•	and it of locations were forwarded to your Center. 1911.	
	has this material in his customy. The routers	2
	are Baton Rouge, La., Point Comfort, Tex., and Mechanics- burg, Pa. The material includes rolls of positive trans-	
	-: - of a mial Ektachrome.	
	4 II 11bled multispectral photography. The multispectral	
	1	•
•	- :- 6thoring our investigation of spectral signatures of	
	certain images contained therein. Work so undertaken is in cooperation with the NASA Earth Resources Aircraft Program	
	from which source these data come.	
	Specifically, it would be very much appreciated if microdensi-	
	tometer traces and readings could be made on the spectro areas	•
	and the tracings with density values	2
	forwarded to me. Additional suggestions for improving the	
	analysis would also be very helpful.	
-	This imagery, as well as the color and thermal data, contain,	
	t 1 11 other information of some interest to your organization	
	ton that reason. I am most nappy to make it available	
	a series and use as you may see fit. Since an investigation	
	report for NASA is required in the near future, would two or	
•	three weeks over your way be adequate for your use?	
· · · · · · · · · · · · · · · · · · ·		
	Resource Evaluation Division	
	National Resource Analysis Center	

MEMORANDUM FOR THE RECORD  SUBJECT: Meeting of the National Disaster Support Task Group  1. The fourth meeting of the National Disaster Support Task Group began at 1300 hours on 24 March 1970 at the USGS TK Facility, Reston, Virginia.  2. USGS, mentioned that USGS had received no KH-4 domestic coverage north of 43 degrees north latitude. He questioned and Dr. O. Guthe about the reason for this coverage being withheld. No explanation could be given; however, said he would look into the matter.  3. asked if any attempt was to be made to	• .20,
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latitude. He questioned and Dr. O. Guthe about the reason for this coverage being withheld. No explanation could be given; however, said he would look into the matter.	25
tion could be given; however, said he would look into the matter.	25
3. asked if any attempt was to be made to	25
acquire a copy of all existing domestic aerial photographic coverage for disaster data base purposes. This would be a mammoth under-taking requiring a vast indexing/storage/retrieval capability	2
equipped to handle various film and format types/sizes. Such an undertaking would probably necessitate the establishment of a new government agency with this task as its prime function. Presently	
the Federal Interior Department maintains domestic coverage records of both government and commercial aerial photography. The actual imagery, however, is not received. The USGS, rather, is attempting to obtain KH-4 coverage of the entire US and maintain an indexed	٠
file of the imagery. The scale and format size of the KH-4 material lends itself to an ideal storage maintenance situation.	
4. At the suggestion of we separated into two working groups. One group concerned itself with identification of disaster types and the other in which I participated, with identification of the tasking channels between the civilian agencies and DOD commands. The outcome of a lengthy and serious group discussion was the suggestion that a disaster task group secretariat working	25)
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SUBJECT:	Meeting of the Na	tional Disaster Support Task Group	
for the work clo reconnai necessar secretar approved	civilian agency/DOD psely with OEP field ssance requests and worked or y for the establish	interagency agreement be responsible coordination. This secretariat would representatives and be aware of all initiated/pending action.  In preparation of a statement of action ment of authority for the proposed ered necessary that such a statement be OEP and the Secretaries of the Air	
5.		ng scheduled for 31 March 1970, work is to evenues.	
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		-		2 April 1970	
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•	MEMORANDUM FO	OR: Chief, Pi	lanning, Program	ming & Budgeting Staff,	
	ATTENTION:		Į.		
	THROUGH:			ence Division, TSSG/NPIC Branch, APSD/TSSG/NPIC	翻
	SUBJECT:	National	Disaster Suppor	t Task Group	
				l Disaster Support Reston, Virginia.	
• .	photographic ment. It is effort be ave Time expended upon the partask will be Virginia. Si	interpretation necessary the allable on a side would range ticular disast accomplished ince the data	on support via a at the interpret seven day per we from one day to ter situation.  at the USGS, TK	the point of requesting in interagency agree- ters designated to this sek basis, as required. It is two weeks depending the interpretation in Facility, at Reston, as KH-4 photography, effort.	
				ould commit to support	

5. Your guidance in this matter is needed since the answer is a Center management decision.

4. The official request for NPIC support will be placed through either the Steering Committee, ARGO or through the Director of OEP. The above mentioned query is intended as an aid for the

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Image Evaluation Branch
APSD/TSSG/NPIC

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TOP SECRET

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placement of a realistic request.

the Support Task-Group.

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	SUBJECT	: National	. Disast	er Suppor	rt Task	Group		

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14 April 1970

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MEMORANDUM FOR THE RECORD

SUBJECT: Meeting of the National Disaster Support Task Group

1. The fifth meeting of the National Disaster Support Task Group was convened at 1300 hours on 31 March 1970 at the US Geological Survey Facility, Reston, Virginia.

2. Following a review of the 24 March meeting minutes, USGS, presented a short briefing on the advantages of employing a framing camera, namely the A-2 system, for obtaining disaster coverage. This system flown at 70,000 feet provides a per frame ground coverage of a five by ten mile area at a scale of 1:35,000. The USGS is opposed to flying panoramic cameras in lieu of metric systems since panoramic frames are more difficult to mosaic. This difficulty is compounded because, in general, it requires more panoramic frames to cover the same flight line. George mentioned that when OEP places a request for disaster coverage, items such as camera system, flight path, filter and film type should be specified. This seems like a sound idea until one considers such problems as system availability, flight path requirements of the aircraft, film type on hand, etc. The better solution would be to indicate area of needed coverage and let the Air Force do the rest. George suggested that we specify such film types as Kodak Plus-X Aerographic or Tri-X Aerographic exposed using a Wratten 12 (medium yellow) filter in order to get high quality results. This comment enforces the approach that we should indicate areas and let the Air Force do the rest since they normally stock film types 3400, 3401 or 3404 for their reconnaissance needs and the requesting of coverage on a "commercial" type film may cause some confusion. The use of operational film types will also provide higher quality imagery than the commercial films. The need for metric photography for disaster analysis is unclear to me since I feel that an interpreter would prefer to work from larger scale (panoramic) will look into the aircraft/system availability imagery. and location.

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	SUBJECT: Meeting of the National Disaster Support Task Group
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	the countries that
	usgs had not received KH-4 domestic coverage north of 43 degrees
	north latitude. Some old coverage of this area was located and
•	forwarded to pacton, however, there has been no recent coverage
	of this region and, thus, USGS has not received any. Reston was
	reassured that they will receive all domestic KH-4 coverage, with
	the exception of special classification edited areas.
	USGS, read a portion of a Senate bill con-
	cerning National Disaster Support/Relief introduced by Sen. Birch Bayh stated that this bill was introduced in order to pre-empt
	an Administration bill which will soon be presented. It is expected
	that this hill will provide for action prior to national disaster
	declaration and would, thus, directly benefit the proposal of
	our Task Group.
	<del>-</del>
	5. Since the data base (KH-4 domestic coverage), a TK working
	area and tab facilities are available at USGS, Reston, it has been
	decided that the disaster photographic interpretation task will be accomplished there. Should interpretation needs require the employ-
	ment of specialized equipment not available at Reston, other ractifices
	will be tanged for support. The NPIC may be asked to contribute
•	gunnout in the mencuration and reproduction areas when such support
	is needed to answer special requirements. It is expected that such
	requests will constitute only a minor effort.
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	committee action.
	6. The remainder of the meeting was spent in committee action.
	T worked with Dr. Otto Guthe and On the
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	I worked with Dr. Otto Guthe and on the Tasking Channel Committee. Following subsequent consultation with, PPBS/NPIC, it was recommended to the committee that the appropriate tasking channel for the NPIC was through the Steering Committee/ARGO to the DCI.
	I worked with Dr. Otto Guthe andon the Tasking Channel Committee. Following subsequent consultation with, ppBS/NPIC, it was recommended to the committee that the appropriate tasking channel for the NPIC was through the Steering Committee/ARGO to the DCI.  7. The next Task Group Meeting will be an all day session
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	SUBJECT:	Meeting of	the Nation	al Disa	ster Supp	)OTT 1836	Group .		
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21 April 1970

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MEMORANDUM FOR THE RECORD

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SUBJECT: Meeting of the National Disaster Support Task Group

- 1. The sixth meeting of the National Disaster Support Task Group began at 0930 hours on 7 April 1970 at the USGS TK Facility, Reston, Virginia.
- 2. The minutes of the previous meeting were reviewed and approved. It was agreed that the interagency agreement for disaster support should be presented to the agencies through ARGO channels and sign-off achieved via the same route.
- We next divided into our respective groups for committee I worked with action. USA TOPOCOM on the PI Resources Committee. Our concern is with the interpretation phase of the support group and interrelates with all of the other committees. Post disaster coverage will be acquired through the use of the U-2/U-2R reconnaissance platform utilizing either the A-2, B, IRIS II or 112-B camera system. The A-2 units are presently in moth balls and although the B camera systems are being maintained in a "flight ready" condition, their employment would result in some delay. Thus, for immediate response, either the IRIS II or the 112-B system would be utilized. Both are panoramic systems and therefore met with some disfavor from USGS and TOPOCOM because of the mosaicing problem. It was pointed out at a subsequent discussion that the interpretation of the disaster situation was of prime concern and that metric quality and ease of mosaic production was not extremely vital. The problem was really to convince old line mappers that metric fidelity is not required for interpretation and damage assessment of disaster situations. When the system choice is available, the IRIS II is preferred over the 112-B because of its larger scale and format size. Other aspects of interpretation such as EEI's, light tables/viewing equipment, number of duplicate positives required, availability of the original negative and mode of presentation to be employed for interpretation reporting were discussed.
  - 4. Following lunch, the group reconvened and stated that he wished the final report of the Disaster Support Task Group be ready for presentation in about two weeks. This requires that the individual committee drafts must be ready in about a week in order that they may be composited to form the final report. It is intended that

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SUBJECT: Meeting of the	National Disaster Support Task Group
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	nted at the next ARGO meeting scheduled for
the report will be present 22 April 1970.	nted at the next was more
-	d that the NPIC furnish some briefing boards
	GLOUD WIII broazes
WillCit Cito Dibusto	
purposes. This is being	accomplished.
purposes. This is being	accomplished.
	accomplished.
	S SCCOMPTIBLEG.
6. The next Task GUSGS, Reston, with commi	accomplished.
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	19 June 1970
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MEMORANDUM FOR THE RECORD	Approximate to deposit to the second
<i>.</i> .	FOR 0030-1345
SUBJECT: ARGO Meeting - Room 213 - June 17, 1970	101, 0,50 15.7,
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1. The meeting was chaired by	and opened promptly on diffraction pattern research.
with the briefing by The briefing was well delivered and	there were several questions.
Several ARGO members were obviously	A Mell-Inlormed with the argre-or-
the art involved. asked	if it would be useful to
NPIC to have a stated interest from	e. also requested a
replied in the affirmative further briefing as the diffraction	
Turther briefing as the diffiaction	
2. The next briefing was give	en by
(MOTO) on the Rumanian floods. Ag	ain there was considerable dis-
cussion and our briefers performed	that while not our normal function.
prefaced the briefing with remarks we recognized the importance of th	that while not our normal function,
cooperate. I also commented on the	e 1110-1 & 2 coverage of Rumania
and lack of coverage of Peru.	:
	11 - Down combined to corrors
3. The next briefing was on This was a "mixed bag" of policy s	the Peru earthquake coverage.
sons did appear for the vagueness.	Apparently RC-135s were avail-
Nice emperently no one act	mally remested air coverage. De-
- hima all this it seems that the O	lelicate political relation to reru
- of the H S precluded clarity in t	the matters of aid and proto coverage.
When doctors were offered, they were	were (reportedly) refused. ) It
(WILCH GOCOOLO WOLO CLUCA)	-t of whote coverage! The Perm
beiled down to "Peru did not reque	est air photo coverage. The reru
boiled down to "Peru did not reque	on of policy in future cases and
boiled down to "Peru did not reque situation may lead to clarification I assume this will involve the roll scatter chiefs with State and other	on of policy in future cases and le of the Ambassador and the Embassy er agencies. Satellite coverage,
boiled down to "Peru did not requesituation may lead to clarification."  I assume this will involve the roll section chiefs with State and other courses is politically in a different course.	on of policy in future cases and le of the Ambassador and the Embassy er agencies. Satellite coverage,
boiled down to "Peru did not requesituation may lead to clarification."  I assume this will involve the roll section chiefs with State and other courses is politically in a different course.	on of policy in future cases and le of the Ambassador and the Embassy er agencies. Satellite coverage,
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boiled down to "Peru did not reque situation may lead to clarification I assume this will involve the roll section chiefs with State and other of course, is politically in a did be made in Washington without, need to be the course, is politically in a did to be made in Washington without, need to be made in Washington without and the course of the co	on of policy in future cases and le of the Ambassador and the Embassy er agencies. Satellite coverage, fferent situation and decisions can cessarily, reference to the field.
boiled down to "Peru_did not requesituation may lead to clarification. I assume this will involve the rolescation chiefs with State and other of course, is politically in a did be made in Washington without, necessary the U-2 to test the Return in the state of the	on of policy in future cases and le of the Ambassador and the Embassy er agencies. Satellite coverage, fferent situation and decisions can cessarily, reference to the field.  d briefed on the experiment of Beam Vidicon. is under Lockheed,
boiled down to "Peru did not requesituation may lead to clarification. I assume this will involve the role section chiefs with State and other of course, is politically in a did be made in Washington without, need to be made the U-2 to test the Return wash contract in connection with	on of policy in future cases and le of the Ambassador and the Embassy er agencies. Satellite coverage, ferent situation and decisions can cessarily, reference to the field.  d briefed on the experiment of Beam Vidicon. is under Lockheed, ERTS satellite program. The return
boiled down to "Peru did not requesituation may lead to clarification. I assume this will involve the roll section chiefs with State and other of course, is politically in a did be made in Washington without, new large the U-2 to test the Return NASA contract in connection with beam vidicon camera described in some system as that to be used in	on of policy in future cases and le of the Ambassador and the Embassy er agencies. Satellite coverage, referent situation and decisions can cessarily, reference to the field.  d briefed on the experiment of Beam Vidicon. is under Lockheed, ERTS satellite program. The return this briefing is essentially the the Earth Resources Satellite.
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boiled down to "Peru did not requesituation may lead to clarification. I assume this will involve the roll section chiefs with State and other of course, is politically in a did be made in Washington without, new larger than the U-2 to test the Return NASA contract in connection with beam vidicon camera described in same system as that to be used in the courter employs a newly develop	on of policy in future cases and le of the Ambassador and the Embassy er agencies. Satellite coverage, referent situation and decisions can cessarily, reference to the field.  d briefed on the experiment of Ream Vidicon. is under Lockheed/ERTS satellite program. The return this briefing is essentially the the Earth Resources Satellite. ped RCA pick-up tube which has a pick-up tube has a 525 line scan

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	produced	
	satellite altitudes, the system (using the eight inch lens), produced	25X
• .	ground resolutions in the order NASA's seemed pleased with the performance that the system displayed.	-
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	briefed on status of Gulf Coast (Texas to	25X
	Floridal coverage (requested by ARGO and OEP and approved by	Ý
	courtery) cra (in the West) and AF (in the East) are covering.	•
	Film is processed at Westover and the comment made that Westover needed the activity and experience. It is delivered to Reston.	7
	Auguster has been excellent for disaster purposes (IRIS II) but not	[
	too usoful for menning at this time. However, after several conflict.	
l ·	ing statements it seemed that in 9 months a modified rectifier will	ĺ
ì	he available to make the IRIS II camera film useful for mapping.	
	KH-4 photography is still preferred due to easier handling. U-2s	
,	were used in context of training missions - no special flights.	
	6. The Disaster Task Force report was discussed briefly and	
1	postnoned for a few days as General Lincoln had made some organiza-	
	tional changes in OEP - establishing an Emergency Operations	
	Center. This will be reflected in the report. Changes in the re-	25X
	DOIL CO LETTOCO WOTHEN DOGGET OF THE PROPERTY	25X1
	were made by memorandum from Guthe to the Chairman of the Disaster Group - (I added a few similar changes by supple-	23/1
•	spoke of appreciation for	25X ²
	NPIC's help, importantly the design and production of unclassified	
,	"spectaculars" (briefing boards).	
		•
	7. New Business	
	is about half-way through a round-robin of talks	25X′
	with the civil agencies' sub-cabinet officers regarding	25/
	ARGO matters. He hopes to review and reopen the matter	
	of ARGO charter extend, modify or eliminate its	
	activities.	
	Next ARGO Meeting in late July and then in September (CIA/SEC) had requested a new update list of	
	TK clearances in civil agencies which are justified for	25X <u></u>
	ARGO	•
	USGS, reported a requirement for high altitude	25X1
<b>.</b>	air coverage of the U.S. He will distribute later a	
!	justification paper.	2-1
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MEMORANDIM FOR THE RECORD  SUBJECT: ARGO Meeting - Room 208 - EOB, 0930-1330, July 22, 1970  1.		24 July 1970
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1		MEMORANDIM FOR THE RECORD
2. The first subject was a discussion led by ESSA on the manner by which tornadoes do their damage. A film presentation was included consisting of radar flown over a tornado and ESSA satellite tornado coverage with a few overlays of radar over the satellite imagery. Frames 15 minutes apart were used reducing the motion film coverage of-say-8 hours, for example, to seconds. The major point appeared to be further knowledge from the reported first impression years ago that damage was caused by drawing up surface objects into the center of the tornado - to the current understanding that the damage is caused by the winds at the edge of the tornados. These winds are normally counter-clockwise with 15% clockwise. They might consist of a 100 yards wide edge of a 2-mile-wide tornado. If the tornado is "tipped" on its side enough only one edge section will be damaging. Much of this information was determined by imagery of post-tornado swaths with straight, arcs or spiral paths of material left by these wind edges.  Made an interesting comment on some writings by Myron Tribus (Ass't Sec'y Commerce who has been briefed here in NPIC and who, I believe, has just been appointed by the President as Head of a special interagency group on weather modification problems - which will face the decisions on whether "to seed or not to seed" (modify) a hurricane, etc., thus possibly causing damage suits against the U.S.).  commented that Tribus has recommended great caution on attempts to modify hurricanes, tornados, thunderstorms, etc. until we are sure we know enough of what we're doing The ESSA rep said we might have a home TV weather channel in a few years (something like the channel continuously running the stock market reporting) which will give us continuous pictoral reporting (providing the viewer a channe to look at the weather for his area or the immediate area north, south, east, or west into which he may be driving - for example).  OEP, reported that the head of the Disaster Working Group  OEP, reported that the head		SUBJECT: ARGO Meeting - Room 208 - BOB, 0930-1330,
by which tornadoes do their damage. A film presentation was included consisting of radar flown over a tornado and ESSA satellite tornado coverage with a few overlays of radar over the satellite imagery. Frames 15 minutes apart were used reducing the motion film coverage of-say-8 hours, for example, to seconds. The major point appeared to be further knowledge from the reported first impression years ago that damage was caused by drawing up surface objects into the center of the tornado - to the current understanding that the damage is caused by the winds at the edge of the tornados. These winds are normally counter-clockwise with 15% clockwise. They might consist of a 100 yards wide edge of a 2-mile-wide tornado. If the tornado is "tipped" on its side enough only one edge section will be damaging. Much of this information was determined by imagery of post-tornado swaths with straight, arcs or spiral paths of material left by these wind edges.  made an interesting comment on some writings by Myron Tribus (Ass't Sec'y Commerce who has been briefed here in NPIC and who, I believe, has just been appointed by the President as Head of a special interagency group on weather modification problems - which will face the decisions on whether "to seed or not to seed" (modify) a hurricane, etc., thus possibly causing damage suits against the U.S.).  commented that Tribus has recommended great caution on attempts to modify hurricanes, tornados, thunderstorms, etc. until we are sure we know enough of what we're doing The ESSA rep said we might have a home TV weather channel in a few years (something like the channel continuously running the stock market reporting) which will give us continuous pictoral reporting (providing the viewer a chance to look at the weather for his area or the immediate area north, south, east, or west into which he may be driving - for example).  3. OEP, reported that the head of the Disaster Working Group  OEP, had approved the report which will be-final-typed-next-week (thanks-to-the-return f		1. chaired the meeting assisted by
be final typed next week (thanks to the return from leave of his secretary - ??). The report will be given to the Office of The Chairman, ARGO, which will distribute it to all agencies. The report is unclassified and does not refer to its TKH annex which will be distributed in parallel with the report. This distribution should occur by August 3rd. Comments, if there are any more, of the receiving agencies should be made to Chairman		consisting of radar flown over a tornado and ESSA satellite tornado coverage with a few overlays of radar over the satellite imagery. Frames 15 minutes apart were used reducing the motion film coverage of-say-8 hours, for example, to seconds. The major point appeared to be further knowledge from the reported first impression years ago that damage was caused by drawing up surface objects into the center of the tornado - to the current understanding that the damage is caused by the winds at the edge of the tornados. These winds are normally counter-clockwise with 15% clockwise. They might consist of a 100 yards wide edge of a 2-mile-wide tornado. If the tornado is "tipped" on its side enough only one edge section will be damaging. Much of this information was determined by imagery of post-tornado swaths with straight, arcs or spiral paths of material left by these wind edges made an interesting comment on some writings by Myron Tribus (Ass't Sec'y Commerce who has been briefed here in NPIC and who, I believe, has just been appointed by the President as Head of a special interagency group on weather modification problems - which will face the decisions on whether "to seed or not to seed" (modify) a hurricane, etc., thus possibly causing damage suits against the U.S.) commented that Tribus has recommended great caution on attempts to modify hurricanes, tornados, thunderstorms, etc. until we are sure we know enough of what we're doing The ESSA rep said we might have a home TV weather channel in a few years (something like the channel continuously running the stock market reporting) which will give us continuous pictoral reporting (providing the viewer a chance to look at the weather for his area or the immediate area north, south, east, or west into which he may be driving - for example).
if there are any more, of the receiving agencies should be made to Chairman	**************************************	Working Group , OEP) had approved the report which will be-final-typed-next-week-(thanks-to-the-return-from leave-of-his secretary - ??). The report will be given to the Office of The Chairman, ARGO, which will distribute it to all agencies. The report is unclassified and does not refer to its TKH annex which will be distributed in parallel
		if there are any more, of the receiving agencies should be made to Chairman

•	TOP SECRET RUFF	-2
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•	ARGO by Aug. 13th or 14th. Final approval should occur at the September	2
	meeting of ARGO and the report forwarded to will then transmit to the cabinet level for formal agreement. (ARGO	
	file and nest MDs contain references and comments on the disaster	
	working grown report.) reported that UEP now had the budget	2
	and would begin construction of its SI/TK cleared center and its communications and information center (secure phone, wire services,	
	presentation equipment, etc.).	
	4. There was limited discussion on the RBV (return beam vidicon)	
	following comment by that he'd been to Lockneed recently and	2
	found there were higs in the system. He mentioned camera shifting	
	manticularly He and TOPO Div USOS Talked about the	2
	planned correlation between EKIS-A, Skylab and aircraft imagery. Without (absent) from NASA, discussion seemed rather	,
	Without (absent) from NASA, discussion seemed rather inconclusive.	2
	presented his proposal for complete high altitude	2
	(12) compage of the HS His proposal and recommendations are	
	attached Also attached is a related paper along Similar illes willten	
	a+ MACA/Houston   Will obtain propagle cost rightes	2
	in a week or two. These figures will be given to user agencies for their consideration as they put in their requirements. The total	
	requirements should be summed up in six or seven weeks for consideration	
	at the next meeting.	
	6. A brief terms of reference paper was distributed by	2
	and returned at end of meeting. Discussion did not indicate anyone's	
	concern Other than some minor points. Otto Guthe and I felt it was	
	consistent with what we believe is policy. It will be considered	
	again later when has a chance to put his thoughts on ARGO together, following sub-cabinet talks on that subject.	
	-	_
	7. reported on his talks to date at sub-cabinet or	2
	ass't sec'y level. He covered all agencies so far except Commerce. They are: Transportation, State, Interior, NASA, State/AID, and	
	Agriculture. He said the views on ARGO ranged from 'most important' to	
	complete indifference. He had been careful to stress that he was not	
	selling ARGO. While not yet prepared to report, he said the degree	
	of classification makes use difficult according to almost all user agencies. Other general views: 3 agencies said ARGO access important	
	to them almost all felt it was the only device keeping attention	
	focused on ERTS, - also most felt learning of present problems in	
	handling classified systems gave them a start on future EKIS problems.	
	Martin said he would make some recommendations on declassification to Otto and I advised of current COMIREX reinterest in	
	to Otto and I advised of current complex reinterest in this question and the possible effect of SALT, prior experience of NSAM	2
	-2-	2

	\$ . <b>*</b>	IOP SECRE	NUFF TO THE STATE OF THE STATE	The state of the s
	a single relationship cou	lying ARGO mild be establi	had some thoughts tha ight no longer be needed - p ished. He will make availab	erhaps
	precis of his survey in S	eptember.		
	8. The Chairman's o the September meeting.	ffice will c	all members regarding time f	or
	the September issecting.			
٠	Attachment: As stated (UNCLASSIFIE	ED)	,	•
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HIGH ALTITUDE AIRPHOTO COVERAGE of the United States

### Background

Between 1948 and 1958 nearly complete aerial photographic coverage of the United States was obtained by the Army Map Service from flight heights of 30,000 feet and above. These photographs have been utilized repeatedly by many organizations for cartographic and noncartographic purposes. However, they no longer represent timely coverage for large areas of the country.

Today the capability exists within the Government of obtaining photographs from altitudes of 60,000 feet and above. The performance of aerial cameras has been substantially improved, and new high resolution black and white and color responsive films can provide a far greater information content per exposure than was heretofore possible.

The first Earth Resources Technology Satellite (ERTS-A) is planned for launch in early 1972. Aerial photographs will provide spatial correlation and a large measure of "ground truth" which will simplify and expand the application of ERTS imagery for many users both within and outside the government.

Photographs taken at this time will provide a pictorial base for all users wishing to correlate their data with the 1970 census records.

It is therefore appropriate at this time to consider new high altitude coverage of the country using these new capabilities.

### Department of Interior Requirements

Several bureaus of the Interior Department have indicated specific requirements or applications of high altitude photography.

O Geological Survey Topographic Division

Aerotriangulation to establish horizontal control for mapping

Image base for revising large scale topographic maps (1:24,000) in either line or orthophoto editions

Image base for both recompilation and revision of medium scale maps (1:250,000) in either line or orthophoto editions

A map supplement which, with minimal orientation data, can be distributed to the public without further processing

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EROS Program Office

Spatial correlation for ERTS imagery

Spectral and geometric calibration for ERTS imagery

Ground truth base for use with temporal ERTS coverage

Image correlation with 1970 census data

O Bureau of Land Management

Image base for land use classification of public lands

Other bureaus in the Interior Department have expressed a general interest in the use of high altitude photography if it were available

- O Geological Survey Geologic Division
- O Bureau of Mines
- o National Park Service
- Fish and Wildlife Service
- O Bureau of Outdoor Recreation
- O Bureau of Indian Affairs

## Applications in Other Departments

It is anticipated that other government agencies would also make extensive use of high altitude photography

- O Census Bureau
  - A permanent photographic record of the country to supplement the 1970 census
- O Coast and Geodetic Survey

Aerotriangulation to establish horizontal control, and chart compilation ______

O Department of Agriculture

Image base for thematic mapping and resource inventories prepared by Forest Service, Soil Conservation Service, Commodity Stabilization Service, Agriculture Stabilization and Conservation Service

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O Corps of Engineers (civil works)

Image base for mapping and construction planning

O Bureau of Public Roads

Coverage of interstate highway network

## Suggested Configuration

Department of Interior applications would be satisfied best by having simultaneous coverage flown in high resolution black and white and color infrared. Optimum utility would be obtained by having a photograph approximately centered over each 7.5-minute (1:24,000) map quadrangle. To produce this photography the following parameters are suggested:

O Flight configuration

Altitude 20.55 km (67,500 ft) North South flights

o Cartographic camera

Focal length 152 mm (6 inch)

Format 23 x 23 cm (9 x 9 inch)

Photo scale 1:135,000

Forward overlap 55%

Consecutive exposure spacing 13.9 km

Sidelap 65%

Flight line spacing 10.8 km

Coverage per frame 30.8 x 30.8 km

Camera type Wild, Zeiss (or equal)

Film type - color infrared 2443 (or equal)

O Thematic camera *

Focal length 305 mm (12 inch)
Format 23 x 23 cm (9 x 9 inch)
Photo scale 1:67,500
Forward overlap 10%
Consecutive exposure spacing 13.9 km
Sidelap 30%
Flight line spacing 10.8 km
Coverage per frame 15.4 x 15.4 km
Camera type - Zeiss (or equal)
Film type - black and white 3404 (or equal)

* A 12 inch focal length, 9 x 18 inch format camera with 55% forward overlap and the 18 inch dimension in the line of flight is an acceptable alternative.

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Processing and dissemination

Processing must be accomplished in a controlled laboratory to preserve the geometry, resolution, and color quality of the photography

Original film must be available on unclassified basis for use in making copies for government agencies and general public

Availability of photography must be made known through normal indexing and publication procedures

### Recommendations

- ARGO committee members should canvas the agencies they represent to determine applications, coverage requirements, and camera, film, and flight parameters
- The ARGO committee should prepare a definitive set of specifications incorporating as many requirements as possible
- The ARGO committee should exercise the means at its command to implement the recommended high altitude photography program
- Specific priorities for coverage should be established, but the target objective should be to obtain near complete coverage of the United States by 1972.

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To:

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· MEMORANDUM

Date: January 26, 1970

TF3/Chief, Aircraft Project Office

TOP SECRET RUFF

In reply refer to:

TF3/M19-70

From: TF3

TF3/Manfred von Ehrenfried

Subject: Mapping the United States with the RB57F

Recently, I read a comment by USGS, that it would take 1,500,000 pictures and ten years to map the United States. This statement was made in support of Earth Resources satellites. Although satellites certainly have a tremendous advantage in photographic coverage, lifetime, field-of-view, etc., the RB57F does provide a tremendous synoptic view of the earth at altitudes above 60,000 ft. and at a fraction of the cost. If you consider the time element, I would almost venture to say that we could probably even deliver the "goods" before the satellite.

I think if more people in the User-Agencies were made aware of our high altitude capabilities, we could do more for the scientific community in the field of earth resources both national and international.

Perhaps you might desire to make more of them aware of the RB57F Program and its capabilities by making this proposal available to them.

How to map the 48 contiguous United States (Alaska and Hawaii too, if desired)

With the present team of some 20 Air Force, three NASA and four Contractors already "combat tested" in the Earth Resources Aircraft Program map the 48 States in a systematic, methodical manner with the RB57F. Consider the inputs of all the User Agencies and NASA Scientists in selecting cameras, films and filters, seasonal problems, terrain, etc.

Use the already proven concept of block coverage from the five existing RB57F supporting Air Bases: Kirtland AFB, New Mexico, McClellan AFB, California, McCoy AFB, Florida, Wurtsmith AFB, Michigan and Ellington AFB, Texas. Deploy to any given base until most of the "blocks" within the 1000 nautical miles of that base are covered. Consideration would be given to such weather factors as "no snow on the ground," "cloud coverage less than 3/10ths" etc. For example: deploy to Wurtsmith AFB, Michigan during the summer in order to map the North and Fast when there is no snow on the ground and deploy to McCoy AFB, Florida, during the winter to map the South and Southwestern parts of the U.S.

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Most of our five bases are at the extremities of the U.S. so that we really have a 1000 nautical mile radius for about a half circle or an area of some 1,500,000 nautical miles², which is considerable. It is even-very likely that we would not have to deploy to all five bases due to this layout. We have reached the Imperial Valley, Phoenix, Purdue, Tennessee Valley and others from Ellington AFB, Texas. This illustrates the tremendous flexibility of the RB57F. I would estimate that 25-50% of the U.S. could be mapped out of Houston, Texas. This of course, would greatly reduce the total cost. The cost estimate assumes that 20% of the U.S. is mapped from each base, which is conservative.

Since the RB57F became operational in July 1969, to the present, we have mapped about 9% of the U.S. at the leisure pace indicated below:

Mission	<u>Date</u>	Flights
100	7/14-21/69	3
101	7/30-8/15-69	9
103	8/25-9/17/69	8
10Ğ ·	9/29-10/2/69	· 3
110	8/19/69	ı
112	19/7-16/69	5
116	12/3-7/69	3
. <b>118</b>	1/6-1/15-70	4_

Total to date -- 36

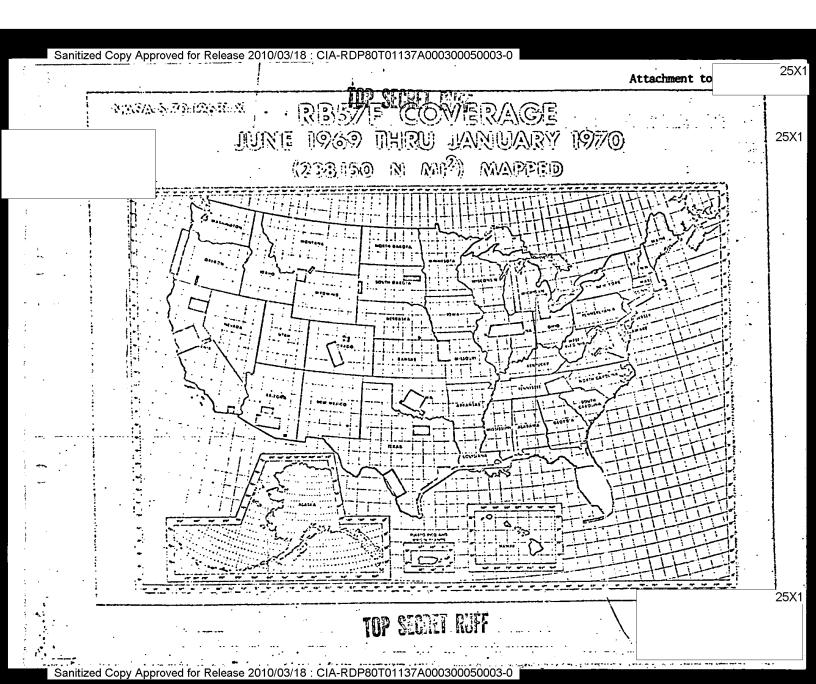
At this pace (6 flights/month) we would have mapped an area equal to that of the 48 States in 400 flights. This is because we are not managing our flights to cover maximum size blocks but to fly selected test sites with some block coverage in the area. Consider, for example, the difference between Mission 106 where we flew four test sites for about 19,000 nm² and Mission 112 where we mapped about 80% of the State of Florida. Had we attempted maximum area of coverage, we could have mapped 432,000 nm² or 19% of the U.S. in this same time.

A maximum area of block coverage is 100 nm by 120 nm or 11 flight lines. This represents the best size area for mapping with 10 nm flight centers to obtain 60% front overlap by 30% side overlap on the RC-8 cameras and accepting whatever overlap results on the KA50 and Hasselblads depending on lens sizes flown. This would provide 12,000 nm² each flight on about 1/2% of the U.S. each flight. The end results can be seen in the next chart.

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		TOP SECRET RUFF	25X
	Given	: Map the 48 contiguous United States	
•	Va v w ····		lor IR
		With: 2 RC-8 Wild-Heerbrugg Metric Cameras - Color and Co. a KA50 Chicago Aerial Wide Angle Camera - B&W	
•		6 Hasselblads-Multispectral	
		How: • Block Coverage Concept - NASA/Air Force RB57F	
	,	100 nm by 120 nm Block Areas (12,000 nm-)	j
		• 60,000 ft. MSL	.
•	•	• 11 Flight Lines Per Block - 10 nm apart • Clear Areas Only (.3 cloud coverage or less)	;
	•	5 AF Base Staging Concept	
· . · · ·		<ul> <li>Deployments based on season and weather</li> <li>190 flights - 9 flights per month - 21 months</li> </ul>	
	A	·	
		Product: • 1605 pictures per block area - color, color IR and	
		Multispectral and B&W 440 RC-8, 165 KA50, 1000 Hasselblads per flight	
•		• 305,000 pictures total	
		Cost: (over entire 21-month period - 27 people on team) No	ote 1
•		a 100 flights of 6 hours at   ir (see note 2)	225X
	•	• 10-C141 support airlifts for deployments • Per diem for 16 GI's and 4 AF Officers	
•	• • • •	Per diem for 3 NASA and 4 Contractors	
	•	a 1710 Rolls of Film and Processing	
•	•	• Airfare for NASA and Contractors (see note 3) • Data Tapes - 38D (2 each flight)	
• .		• Spare parts for instrument pallet	
•	•	• Contingency money (note 4) Total	
•			
		Note 1 - Salaries not included since already accounted for.  Note 2 - The for the aircraft includes the use of	OE.
	,	16 airmen and 4 officers for the entire period.	25X
_		maio price else includes repairs on the aircraits.	
·		Note 3 - All Air Force Personnel will travel in C141 airlit.	
•	•	Note 4 - Total cost is about \$1/nm2	•
	Sumr		
		mary  The second of a second second in terms of a	ircraft
	-	my opinion, most people think of aerial photography in terms of a dive or ten years ago. Furthermore, most people never heard of	
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-		and the tree Amongias mana sware at What we call do and tot how	
	in t	the way of manpower and expenditures. For a little more, we could	
	, Wie	and possibly replace the hadrometer bycosi	

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	the Air Force.	ras; perhaps som (Reference: II ourns/CAI, Inc.)	igh Altitude	ltitude (	cameras be ic Airborn	ing built for e Camera bei	r ng
	could include Resources site enough trade o of the require cameras with t cameras for va	our present Ear the requirements s with the overa ffs and compromi ments. We could he same film/fil ried scientific	of the Frince of the requirement ses could be possibly fluter combinative reasons.	orpai in to ma made in y two or ions and	p the U.S. order to three of vary the	Certainly, satisfy most the nine remaining	•
•	hours of which blocks of cove have already f	ap the United Sta	alf hours is 20 nm which ites today, t	is the s	ize of mar	y blocks we	•
	with internati	ional agreements,	of course!)	)			
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	1 October 1970
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MEMORANDUM FOR THE RECORD	
SUBJECT: ARGO Meeting, Room 21 10:00 A.M 1:30 P.M	3, EOB, 29 September 1970,
1. OSI, chair the members attention to flying	red the meeting. He called
security clearances and the need	d, before flying, to check
with their special security off attendee's names be called in a	icers. He also requested that
ings.	
2. Eastman-Kodak personne	1 briefed ARGO on EK films
for exposure and duping, and pro	ocessing equipments.  f this and I will distribute
it separately. I would comment	here that the state-of-the-
art was obviously strengthened iterest/use and that the benefits	by the long intelligence in-
apparent in the briefing.	2 co non-ruferiragence were
3. USGS br	iefed on the use of the KH-4
in $1/250,000$ map revision. He	pointed out the history of the
turnover of the responsibility of the U.S. Geodetic Survey in late	e 40's and the current 5 to 8
years revision program. He also "Interim Revision" Program. The	o briefed on the 1/24,000
vision is blown up 2X, rectified	d, and then mosaiced. In the
1/24,000 Interim program of deta flown at 40,000 feet is providing	ailed revision, the KC6 camera
blown up. There followed some	discussion of the utility of
other systems - the IRIS with a the 6" at 70,000 feet (NRO -	modified rectifier - flying
already flown and he'll look it	up). is preparing
a summary of the discussion of will distribute it separately.	the various systems and I
the camera satis	sfying 1/250,000 needs. NRO
resolution, nor that there would	sure it "would have sufficient
feet are available four times a	year and DOD might use it all
up). This will be up to COMIRE possible_unclassified_ERTS_use_c	X-MC&G. NRO is interested in
to cut cost of each item.	or-ene camera in order
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chided from entomatic downgrading and declassification.	SECRET
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SUBJECT: ARGO Meeting, 29 September 1970

4. OST, provided some initial costs for the U-2's and RB57's in connection with domestic coverage requirements recently proposed by USGS.

a. U-2 - 50 flying hours per month for 1 year.

\$250,000 if flown by Air Force.

\$500,000 if flown by Commercial contract.

b. RB57 - 50 flying hours per month for 1 year.

\$600,000 (Air Force)

\$1,500,000 (Commercial contract)

The above costs reflect the lack of certain costs in Air Force figures (TDY's, perdiems, management, etc.). Possible 5 U-2's available by June 1971 and possible 8 RB57's by same date. An alternative, if Interior budget can't swing would be to obtain available U-2 IRIS coverage and the RB57's would be stored. Some discussion of U-2 compared to RB57 occurred involving U-2 carries one system versus RB57 more than one, isolation mount requirements (or not), and it was felt by NRO that the systems were roughly comparable.

5. "Fascinating" discussion of ARGO charter proposal.

handled for Agency. We (intelligence - CIA) had
no problem but DIA felt that ARGO might impinge on MC&G role
(no such intention - WRL), NASA feared its relations to NRP
might be affected (no such intention - WRL), etc. Also,
some ancient and classic (and understandable although invalid) fears by Commerce (and others) revealed a concern that
after stepping into an intelligence relationship there were
now elements of "control" appearing.

All seemed "happy" with result: That the DIA/MC&G concern would be disposed of by a separate memorandum of agreement and fears of "management", "control", and "restriction" would be allayed by a further revision of the charter to "soften" some verbs and include a "tone" of fostering the relationship of the civilian agencies to the intelligence community in order to obtain the intended benefits.

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	SUBJECT: ARGO Meeting, 29 September 1970	
	6. A very brief discussion at a late hour was held on the troubled <u>Disaster Working</u> Group report. The report.	_
	requested by OEP is under study in OMB. If OMB supports the study OEP may become responsible as planned or	25)
	some other agency may be so assigned is supporting through the domestic side of the White House Staff,	25
•	among other channelsbelieves OMB views may be known shortly. He commented that the White House Staffers on domestic side have been looking for ideas and probably	25X
	would be sympathetic to the proposal.	25.
	ARGO Representative	
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GROUP 1 Excluded from automatic downgrading and declassification

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8 October 1970

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MEMORANDUM FOR THE RECORD

SUBJECT: Steering Committee/ARGO Meeting, 29 September 1970

and I

attended the 29 September 1970 meeting of the Steering Committee/ARGO.

chaired the meeting which began at 1000 hours in Room

213 of the Executive Office Building.

2. First on the agenda was a presentation by Eastman Kodak TK cleared representatives concerning the use of color film type SO-242. EK recommended the system approach in its use; that is, proper Kodak chemistry and EK processing equipment should be utilized. This is the only approach in which customer problems can be readily solved. At present EK has no recommended processing cycle for its SO-242 but one is expected in approximately three weeks. Examples of SO-121 and SO-242 imagery were displayed. Film type SO-360 is the only film commercially available that is recommended for use with SO-242 in the generation of color duplicate positives. SO-360 can be processed in an EK Versamat processor at a speed of nine feet per minute. EK is working to develop a color duplicating material which is more compatible (than SO-360) with SO-242. Such a product may not be available for a few years, however.

The concept of making a black and white duplicate negative of the SO-242 green record layer was discussed. This specially filtered DN can then be employed as any standard dupe negative for the generation of duplicate positives.

It was announced that film type SO-180 has been discontinued, its replacement 3443 has improved keeping qualities.

For those interested in a color negative system, film type 2445 was mentioned. This material offers a greater exposure latitude than reversal products, however, its larger grain size and lower resolving powermay prohibit its use in high altitude acquisition systems.

Direct duplicating film S0-369 has not received much use since it was put on the market. It was stated that persons who have a need for such a material should not overlook it.

GROUP 1
Excluded from automatic downgrading and declaration

TOP SECRET

SUBJECT: Steering Committee/ARGO Meeting, 29 September 1970

A recent addition to the EK commercial product line is 1717 Polycontrast Paper which is water resistant. It was mentioned that in the near future most color papers will be on a water resistant base support.

It was stated that SO-349 is now officially 3414 and SO-236 is now termed 1414. Film type 1414 is the ultra-thin base (UTB) version of 3414 which is a standard thin base material (STB). Both can be processed on an EK Versamat machine to which a stopbath cabinet has been added. Printing from these materials can be accomplished on an EK Niagara Printer utilizing 2430 duplicating film. 3404, our old work base, has been discontinued; its replacement is the above mentioned 3414.

A flow chart of a typical processing system was presented along with descriptions of the following Eastman Kodak equipment as it applied:

Film Pre-Inspection Table
Fultron Film Processor Model III-B
Editing Table Model II, Motor-Wind
Delaware Portable Film Titler Model III
Denver Film Editing Unit (Portable)
Denver Densitometer Unit (fits unit above)
Niagara Printer (kits available to modify unit for color)
Rainbow Continuous Printer (for color)
Colorado Printer (continuous for color)
Seneca Step and Repeat Printer
Saranac Drum Printer
Beacon Precision Enlarger (3X to 153X)

This presentation concluded Eastman's portion of the meeting.

gave a presentation of the Standard Revision of the 1:250,000 scale base maps originally compiled by AMS in the 1940's and early 1950's. It is the aim of the USGS to revise these maps every eight years in rural areas and every five years in urban areas. This is presently being accomplished in a monoscopic effort via KH-4 imagery overlays produced using the Gamma Rectifier and a scale reduction to 1:250,000 (gamma rectifier out put with KH-4 is 1:150,000). USGS is in need of KH-4 coverage (they are up to date with what has been flown thus far) and is considering the use of low altitude (70,000 ft.) aircraft coverage to fill in the gaps.

The 12 inch focal length metric camera to be flown will satisfy their mapping criteria, however, the question of how much domestic coverage

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	SUBJECT: Steering Commattee, And Moderns, and and	
	will be flown was raised. stated that the unit was	*
	Will be flown was failed will produce about 2 000 frames per mission.	
	employ operationally and how much will be used domesticating	
	the film load meets existing requirements,	
	limited and such an increase even if justified would be difficult to	
	accommodate.	
	presented the following costs pertaining	
•	the U-2 and RB-5/ reconnaissance	
	there figures are the costs but you to on water	
	flying schedule of 50 hours (take off to landing) per months	
	USAF owned/operated U-2\$250.000	
	Commercial owned/operated U-2\$500,000	
	USAF owned/operated RB-57\$600,000	
	Commercial owned/operated RB-57\$1,500,000	
	Some of the items which account for the cost differential are:	
	Some of the items which account for the cost officers	
	a. USAF pays no landing fees.	
	b. USAF pays no hanger costs.	
	c. USAF pays no TDY.	
	The above rates are those charged government agencies when the USAF flies	
•	RB-57's may be available. NASA now has one RB-57 and is negotiating for sacond.	2
	this accounts for the	
	modification, when required is not reflected in these rights and dollars.	
	Duman had if that the Vibration live with the	
	for its RB-57 cost them almost one million dollars.)	
	The additional comment was made that the U-2C has a tendency to porpoise.	

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SUBJECT: Steering Committee/ARGO N	decting, 29 September 1970	
5. The last item of business	was a review of the final of	dition of
the proposed ARGO charter. The re-	with to be 180 degrees	from its
t a I - I mooning	XXI X 0110 Z 10 2 2	he meeting ·
was adjourned at approximately 140	U hours.	
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· · · · · · · · · · · · · · · · · · ·	Acting Chief, Section II	
	IEB/APSD/TSG/NPIC	
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19 October 1970

MEMORANDUM FOR THE RECORD

SUBJECT: ARGO Meeting, 29 September 1970

1. I had indicated to regular distributees that I would add to my regular notes of this meeting by distributing separately notes TSSG, on EKs color film briefing to ARGO. They follow:

2. First on the agenda was a presentation by Eastman Kodak TK cleared representatives concerning the use of color film type SO-242. EK recommended the system approach in its use; that is, proper Kodak chemistry and hk processing equipment should be utilized. This is the only approach in which customer problems can be readily solved. At present EK has no recommended processing cycle for its SO-242 but one is expected in approximately three weeks. Examples of SO-121 and SO-242 imagery were displayed. Film type SO-360 is the only-film commercially available that is recommended for use with SO-242 in the generation of color duplicate positives. SO-360 can be processed in an EK Versamat processor at a speed of nine feet per minute. EK is working to develop a color duplicating material which is more compatible (than SO-360) with SO-242. Such a product may not be available for a few years, however.

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Denver Densitometer Unit (fits unit above)
Niagara Printer (kits available to modify unit for color)
Rainbow Continuous Printer (for color)
Colorado Printer (continuous for color)
Seneca Step and Repeat Printer
Saranac Drum Printer
Beacon Precision Enlarger (3X to 153X)

ARGO Representative

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TOP SECRET

Sanitized Copy Approved for Release 2010/03/18: CIA-RDP80T01137A000300050003-0 TUI OLUIILI 25X1 4 November 1970 MEMORANDUM FOR THE RECORD SUBJECT: ARGO Meeting - Tuesday 10:00 A.M. to 1:00 P.M. - November 3, 1970 - Room 208, EOB OST, Chairman ARGO, opened the meeting. With no 25X1 discussion and in response to a question he advised that no action was required by recipients of the ARGO Charter recently distributed under covering letter from Dr. David, President's Science Advisor. He advised of changes in the agenda to eliminate an ESSA briefing on Utilization of U-2 Photography of the Sierra Nevada snow fields (see Agenda attached). KH-4B Color Film - Geological Application 25X1 (contractor) who (OSP) introduced_ presented an overly detailed 1 1/2 hour briefing on subject. None-the-less it was interesting, informative and excellent - particularly as it was less than two months in the making. The 4B/SO-242 film was-used in stereo with 3404 B&W. Mission 1108 was used for 3 areas of the Soviet Union and China. Information sought was geological in character and applications were made to mineral/petroleum exploration indications. Problems were encountered with lack of ground truth elements but maps were found which helped. The briefer commented that a little ground truth (other sources? - WRL) would allow him in the case of a China petroleum area to make "good" estimates on reserves in that area. He pointed out that 15-20' resolution was good enough and he would trade-off better resolution for color (in the type of problems he addressed - WRL). He also stated that views from space give better geological perspective which allow targeting of specific areas for further work by lower level platforms, magnetometers, etc. The contractor's report will be distributed in January, 1971. Red Dot Photography OSP, briefed on Red Dot photography. Red Dot photography 25X1 is test photography by Delta III/U-2 borne camera at 65,000'. The tests are on new films and photo techniques and have been conducted for a 'number" of years. NPIC provides the mission coverage plots. EK conducts the missions, flight planning, etc.

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•		25)
	The purpose of the presentation was to invite/allow requirements from the 'peaceful' agencies via ARGO that testings be done over areas	÷
	of use and interest to them. USGS, promptly took advantage with request for coverage of lunar landing test sites in Arizona (in color). The Red Dot flights contain both color and B&W. Also, technology and techniques could be made available to the agencies.	25)
·	NPIC has made the index available at Reston. The information is	
	classified Secret. Some discussion (to be resolved by Security) about unclassified use occurred. mentioned that he had	25) 25)
	asked NPIC to update the index with the last 8 missions (I checked and found we had the requirement and asked that results be sent to Reston).	
•	Also there was some discussion on who would do the rectification - this will be checked (ACIC or TOPOCOM?) by	25)
	Intelligence Briefing on Results of Color Task Force.	
	OSP, gave a briefing on results to date of the NRO Color Task Force. This information is well disseminated in NPIC	· 25)
	Other Business	
	It was noted that an EK report on spectral reflectance off soils would be distributed soon.	
		25)
		!
	ARGO Representative	<b>;</b> .
	Attachment: Agenda for November 3, 1970	
	Meeting of ARGO Steering Committee TS TKH (WORKING PAPER)	
	Distribution:	
	Copy 1 - NPIC/PPBS. w/attach 2 - NPIC/TSG w/o attach 3 - NPIC/TSG w/o attach	· 25)

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' <i>;</i>	
	EXECUTIVE OFFICE OF THE PRESIDEN'I
	OFFICE OF SCIENCE AND TECHNOLOGY
	WASHINGTON, D.C. 20506 WORKING PAPER
	WORKING FALLS
	Attachment to_
	October 12, 1970
	MEMORANDUM FOR
	MEMORANDOM
	ARGO Committee
	SUBJECT: Agenda for November 3, 1970 Meeting
•	
	The ARGO Steering Committee will meet from 10:00 am to 1:00 pm
	in Room 208, EOB, on November 3, 1970. I hope you will attend.
	and for this meeting will be composed
•	We are planning that the agenda for this meeting will be composed of the following items:
	A. ESSA briefing on the Utilization of the U-2 Photography of
201	the Sierra Nevada snow fields to include:
* Sagar	1. strength and weaknesses of the coverage
1	2. accuracy of information using the U-2 coverage and
<b>V</b>	with conventional data
μ	3 cost of using the U-2 data
	4. value of the data in terms of decisions made to include
-	reduction of flooding, water saved in reservoirs, etc.
\	B. Interpretation of KH-4 color photography for geological
シ	application: (contractor to CIA).
	1 Det abetignenbyr
نے کے	Availability of Red-Dot photography:
y ~	(CIA).
17/	D. Unfinished Business.
$\swarrow \chi$	
14. /	If you wish other matters considered please call
	(395-3326). Color Tack Force Sinhig-
ستسيئز	(Color Tack tower Sicong
	EXCLUDED FROM AUTOMATIC DOWNGRADING

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WORKING PAPER Attachment to

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It is requested that the names of all persons attending the Steering Committee meeting be furnished by October 30, 1970 so that the White House security office may be furnished a complete list of names to prevent members being inconvenienced in gaining access to the building.

Chairman

ARGO Committee

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This document consists of 2 pages No. 20 of 12 Copies, Sories 4

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WORKER MARI

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Brief Highlights COMIREX Meeting Auditorium Bldg. 213 1000 Thursday, 7 Jan. 71

NRO, briefed on the Briefings: project. Much information has already been available in briefing: The question of the difference NPIC and to its between 10' resolution (radar) and 10' resolution (photo) was discussed and (at least to me - WRL) needs further clarification -- in order that one's expectations from radar imagery will not be based, insofar as resolution characteristics are concerned, upon experience with photo imagery resolution which provides more information. - Missions will be flown at night. - Care will be taken to experiment with "unknown" target characteristics, one of the reasons for using foreign targets. - Oblique will be primarily 6.7 nm to 20 nm coverage from radar at 30° to 60°. - Range 5 to 65 nm, either side. - Swath 5 nm. - Recording capacity 2500 nm. - Location accuracy 3000' (not too clear on this - WRL). - System uses antenna feeding cathode ray tube display which is recorded on film - then ground correlations producing film for delivery to NPIC. February/March '71 - domestic tests still planned with Cuban missions for April (political permission seems likely). - Cuban missions are expected to be 1 every 3 days for 45 days maximum. - Later satellite application is expected at 218 nm altitude at 10' (radar) resolution with no sun angle or weather interference except severe thunderstorms.

Minutes-114: Approved

Minutes-115: Publish week of 11th with comments due by Friday, 15th to Executive Secretary.

Satellite Schedule: Copy attached.

EXRAND Objectives: Approved. EXRAND plans to update every year.

Crisis Task Team: In absence gave status report.
(Believe addresses are familiar with status - WRL) - referred to parallel community effort on indications/warning lists for Near Real Time.

Obliquity: obliquity presentation to be given at next COMIREX meeting on 21 January 1971.

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•	19 January 19	71
	Copy	
	METORANDUM FOR: THE RECORD	<u>.</u> ·
•	SUBJECT: ARGO Meeting, 10:00 a.m. to 1:00 p.m., Room 208, EOB, January 13, 1971	-
	covering the attachment (proposed declassification of KH-4 DISIC to meet civil requirements). The attachment is explanatory and is not a distributed paper (no mention should be it as all copies except this one were collected). Considerable occurred regarding accuracy of statements on requirements for bet ERTS system, resolution needed, timeliness, impact of budgets on to use electronic information versus conversion of ERTS to image on COMIREX requirements, etc. Otto Guthe did an excellent job gu group back to a responsible beaurocratic approach. The OST approximately would have taken the recommendations (after revision and staffing NSC staff, 40 committee and OMB. Otto succeeded in getting the directed toward the DCI Representative COMIREX (SDWG and USIB, EXCOM and the NSAM 156 Committee. This is to be done after determined that the need exists and is matched against the system for use. This will require a small working group.	self- made of discussion tter-than- ability ry, impact uiding the oach ag) to the subject ad MCWG), er it is
	2. The next item dealt with declassification of Red Dot in and imagery - ditto other camera systems. A request will be mad as DCI Rep to be staffed out by SDWG and Security. I expected that this can be done with tilm-cropping, enlarging/red referring only to high altitude photography - not to U-2. A probrought up by (Head - NSA Earth Resources) concerned to tell requesters of funds for atmospheric studies (degradation due to altitude) that the joh's been done. (NPIC) and SPP) will meet with to determine which specific particles is involved and, when identified, will request its declass through proper channels. This was followed by similar discussion DIA on possible declassification of the AN/APQ93 radar. On rada that the breakpoint for classification is (a) 30' resolution min planimetric and (b) exclusive of stereo using interferometer techniques to use the AN/APQ93 at less efficient level classification. DIA has responsibility for this one.	It is ducing and below his inability n of imagery nd ast analysis sification on with ar it seemed nimum with chnique. ls to avoid
	3. The NOAA (formerly ESSA) briefing in snow fields was regarding use of U-2 imagery to determine flood levels. (Briefic away and the NOAA ARGO member had just seen their report before Two points I recall covered (a) the need for color imagery to distance some clouds and snow conflicts and (b) an example of sallatter case involved a decision not to release water from a Cal	e the meeting). listinguish wings. The

Sanitized Copy Approved for Release 2010/03/18: CIA-RDP80T01137A000300050003-0 dam/reservoir to make room for flood control storage in view of an originally estimated heavy flood back-up from snowfields. Photography had given a different and lesser estimate which turned out to be accurate, saving an estimated \$5 to \$7 million in damage from deliberate flooding plus loss of water. (NRO) reported four Q28/6" Army systems are standing at Forbes AFB and are available for civil requirements if the civil requester has the funds to pay for the use. USGS-Reston has been receiving excellent film from these systems - taken for training purposes. Representative ARGO NPIC Distribution: Copy 1 - ODIR & ARGO File 2 - NPIC/PPBS 3 - NPIC/TSG

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## Background

The National Academy of Science sponsored a summer study at Woods Hole, Massachusetts, during the Summer of 1967 to establish the requirements for remote sensing for civil applications. The attached chart, which was derived from that study, shows that the civil applications to which imagery is applicable all require 100 foot ground resolution or better. The only exception to this is for atmospheric studies. NASA currently estimates that the best ground resolution to be derived from ERTS A&B is 300 to 500 feet. Therefore, it would appear that other means for meeting the earth resources requirements should be investigated.

this drift was distributed at recalled during ARGO meeting to day. It will be changed a redistributed. No copies (except Mison) are out.

Ols do not refer to This copy - mor make a copy.



LA STORY

Through the ARGO Steering Committee and other mechanisms, such as the NASA/DOD Space Activities Coordinating Committee, Federal civil agencies and NASA are familiar with the photographic capabilities of the NRP. The KH-4 system and the U-2 and SR-71 aircraft programs have been used to meet some mapping and disaster applications of the Departments of the Interior and Agriculture and the Office of Emergency Preparedness. As a result of these efforts and other studies, some of which have been sponsored by the intelligence community, it appeared that the KH-4 system could meet the requirements for ERTS C and D. The NRO offered NASA the option to purchase two additional KH-4 systems in January-February 1970; however, OMB declined to grant NASA the funds to do this, based on the premise that the world is already photographed by this system, therefore additional systems are not needed and one has only to downgrade the classification and release the photography of the areas desired. However, the current 0.1 milliradian resolution restrictions has of NSAM 156 prohibit release of this photography. proposed to USIB a revision of NSAM 156 to 20 meter ground resolution now and 5 meter ground resolution by 1975 which would make the DISIC film available now and the 24-inch panoramic film available in 1975.

The user agencies have applied aerial photography to their problems for a considerable period of time; they are equipped and

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have the expertise for these applications. They do not have the expertise nor the equipment to directly apply the electronic readout data to their problems in most cases. This will require that the electronic readout data will have to be converted to imagery before it can be used.

In summary, the current situation facing the Earth Resources

Program is:

- a. The ERTS A satellite will not meet requirements in resolution for most of the proposed applications.
- b. The user agencies are being organized and have requested funds to apply space data to problem areas in 1972.
- c. The users have worked with aerial photography and have the expertise to apply this type of data to their operations. They have little experience and are not presently equipped to apply electronic readout data directly to many of their applications.
- d. The NRP satellite frame camera systems and the aircraft camera systems can meet many of the civil requirements.

	e.	NSAM 1	56	would have to be modified along the lines propos	sed
by		•	to	permit the application of a portion of the NRP	
can	nera	systems	to	the civil agencies requirements.	

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The NRP camera systems that are best suited to the immediate application of earth resources problems are the frame cameras on the KH-4 systems.

These cameras are primarily used for vehicle altitude determination and for defense mapping, charting and geodesy. They serve also the purpose of providing some geometric calibration to the panoramic and strip camera systems which are of prime interest to the intelligence community.

Specifically, the NRP cameras which appear to have the characteristics to meet the near-term earth resources requirements are:

a. The KH-4 DISIC 3-inch focal-lenth, frame camera, which has a 4.5-inch by 4.5-inch format and covers an area 126 by 126 nm per frame at a ground resolution of 120 feet. NASA is procuring two of these cameras for use in Apollo 15 and 16 lunar mapping programs.

The ITEK 24-inch optical bar panoramic cameras will also be flown on Apollo 15 and 16.

c. ITEK 24-inch, optical bar, panoramic camera, which has a 4-inch by 2.5 foot format. This camera is designed for high-altitude aircraft.

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d. ITEK 13-inch panoramic camera, which has a 70 mm by 2.5 foot format.

These cameras are capable of providing coverage of large areas with black and white, color photography. The color capability of the DISIC and 12-inch frame cameras is limited, due to lens speed and the filters on these cameras. It is possible, however, with some modification to acquire color photography with these cameras.

The alternatives for using NRP cameras and systems to fulfill earth resources needs are limited use of NRP satellite camera systems and NRP aircraft systems. For NRP satellite systems, assuming that the USIB and the 40 Committee agree to the NSAM 156 changes proposed by the Director of the NRO, then it would be possible to test the NASA lunar frame camera in earth orbit. One method for doing this could be the announcement that the NASA lunar frame camera, which in reality is the KH-4 DISIC, would be tested in earth orbit as a "piggyback" on a DOD program starting this spring. Since the DISIC normally obtains photographic coverage of the United States for engineering purposes, the cost to the NRP of doing this would be the cost of processing an extra copy of this coverage.

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NASA piggyback payload on a DOD program. This would require at least a modification to increase its film load if DOD and earth resources

Therefore, it too could be presented as a

requirements were to be met without conflicts on

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cost of \$1.5M. The lens should be modified if color photography is desired. The cost of this would be ________ for development and a recurring increase in cost of _______ for each camera equipped for color photography.

Excess NRP U-2C aircraft are an additional means of supporting the earth resources applications. NASA is currently negotiating for two U-2C aircraft to carry experimental payloads. If the same type of arrangement could be made, say between the Department of the Interior and DOD, then a program could be started to acquire high-altitude photography of the United States on a regular basis. NRP training flights have been used for this purpose in the past. However, it would appear that this effort would be more efficient if it were managed and funded by the civil users. It is estimated that operational costs of the U-2 are approximately \$200 an hour. The modification to put a stable-mount for cartographic frame cameras in the U-2 is estimated at \$1M per aircraft.

It is recommended that consideration be given to:the following:

a.	Declassification of the KH-4 DISIC	
camera	s with appropriate cover, i.e., NASA/DOD piggyback.	

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- b. These cameras be credited as "piggyback" payloads with NASA/user agencies to pay for any required modification.
- c. An announcement that the NASA lunar frame camera (DISIC) will be tested in earth orbit on a DOD program this spring.
- d. Two or three excess U-2C aircraft be turned over to the

  Department of the Interior for use in the United States. (Department
  of the Interior would have to fund this operation.)

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SECREI

NPIC/TSG/RED/SRB-005-71 10 February 1971

MEMORANDUM FOR THE RECORD

SUBJECT: ERTS and SKYLAB Meeting

- 1. On February 2 thru 5, 1971 a meeting was held at the Goddard Space Flight Center of NASA for potential investigators in the ERTS and SKYLAB programs. This memo outlines the proceedings of this meeting.
- 2. The purpose of the meeting was to provide background information and to answer questions of potential investigators of data supplied by the two programs. Approximately 600 persons attended the ERTS portion of the meeting and about 400 attended the SKYLAB portion. Representatives were present from Federal and state agencies, private industry, academic institutions, and 26 foreign countries.

3. The first Earth Resources Technology Satellite (ERTS-A) is scheduled for launch in March 1972. It will image the entire continental United States every 18 days with return beam vidicons looking at spectrum and a multispectral
three parts of the visit of the parts of the
scanner viewing four bands scanner viewing four bands individual images will be taken of each 100 by 100 nautical mile area. Up to 188 sets of seven images can be taken each day. About 44 sets will be used for U.S. coverage so that 144 remain for imaging other areas of interest. Data will also be gathered from remote, widely distributed ground sensors that can measure temperature, wind velocity, water velocity, etc. ERTS-B will be launched about a year later and will essentially duplicate the feat of ERTS-A except that if both satellites continue to function, complete coverage will occur every 9 days.

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MEMORANIUM PO	R: Chief, Operati			
THROUGH			Representatives	
SUBJECT	1 Visit to MPIC	DA WHOO STIC ICT.	, Ale pa coop and	
			for a vertical section of the sectio	
1.	of AID visi	of ARGO and I ted NPIC/ING on	Tuesday, 11 May 1971.	•
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handling faction required to see the instantial contact.	as input to a pend supply distribution visitors were taken they are quality and quant and they asked if they coverage. I at the on Monday aft	ing decision to m.  en to the SEAB/ lao inspected to  tity of coverage en told that they could retur dvised them this er I determine	provide U.S. heli-  TEG and given a brief- he film of the covered  was not sufficient was due in this m Nonday afternoon was possible. They	

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	WORKING PAPER
	monating 17th Lij
	28 May 1971
MEMORANDUM FOR THE REC	CORD
SUBJECT: ARGO Meeting 9:30 A.M	g, Room 476, EOB, 26 May 1971 - 12:00 P.M.
Cha	irman, called the meeting and introduced Skip Skow
Coast briefed on retu	briefers on transducers for a real-time system. on the solid state system and of NRO/West rn beam vidicon, laser scanners and tape storage
agencies with advance	of these briefings is to update the civilian d state-of-the-art in order that they might not solete or cruder systems.
One-time	vel was an 'ersatz' TKH in order to avoid multiple clearances. A need-to-know caution was
civilian agencies. W extent and talked 50'	preading the picture of NRO's efforts around the hile the briefers held back the total state-of-the-ard and 30' to 100' systems, the system's capabilities to the scientific types present.
announced	that NASA will receive U-2's for operation. He
noted that this will U-2 coverage requests	change the function of ARGO regarding channeling to NRP (except to supplement NASA). He asked eview its function and needs and how, if necessary,
should it change. Re handling storage and	eston stated it was negotiating with NASA regarding "sales" for NASA's U-2's and possibly indexing.
effect of the first E	ner there was any ARGO role for the NASA U-2's and the RTS-on-the ARGO function. wanted the ARGO meet his needs (Interior). mentioned that
Rome and Wright - Pat	thad advised them to come direct to them for use of noted that ARGO should not manage direct inter-agency
civilian functions bu	
	do some homework and set-up discussion on this for
	A 1 A1 A CALL Lie and continue with ARGA
next month.	commented that after his own experience with ARGO months ago with the "Assistant Secretaries" of the he felt ARGO still had a role regarding information

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head of OEP, to a central setup	ported that he revive the don	and would	d meet with ort" which	had recommen	ded	25 <u>.</u>
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		NPIC AR	GO Represer	tative		
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	16 June 1971
	Сору 3
	MEMORANDUM FOR THE RECORD
	SUBJECT: Steering Committee/ARGO Meeting, 26 May 1971
	and I attended the meeting of the Steering Committee/ARGO
	on-26-May 1971 at the Executive Office Building.
	chaired the meeting.
	2. The meeting was unusual in two respects. Firstly, the agenda consisted of two briefings with only about 15
	minutes devoted to the ARGO business meeting. Secondly, the
	briefings were unique in that their topic was electro/optical
	systems under development by the NRO.  NRO representative to ARGO, introduced the topic as well as
•	the speakers. Both briefings were handled under the T-KH
,	Control System on a need to know basis. Normally, NRO programs are not briefed T-Ki until development is complete and the
	system is about to go operational. The NRO felt, however, that
	since ERTS-A is scheduled for launch in March 1972, the concerned parties (ARGO-Peaceful Uses) should be brought up to
	date on the NRO efforts along similar lines.
	The first briefing was presented by DD/SGT/OSP,
	and was concerned with "A Solid State Imaging System" employing
	a photo diode sensor. The system employs a detector array for sampling the output of the optical system. The array con-
	sists of two rows. each containing 6,080 individual photo
	diodes, each diode measuring 0.7 by 0.9 mil. The spacing between the rows is 1.2 mils. The detector array is 7.3 inches
	in length The system has a focal length of 36.5 inches, a
	field angle of 11.3 degrees, and if flown at a 500 nm altitude, covers a swath width of 100 nm. The detector array is manufacture
	in segments which are combined to form the total detector.
	ERTS program personnel have been given samples of the detector segments.
	SAFSP, spoke on three systems, two of which will most probably be discontinued. One of these employs a
	vidicon receiver with a one-inch square active format. This

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SUBJECT: Steering Committee/ARGO Meeting, 26 May 1971

is a high density detector utilizing 1.600 to 1,800 diodes per inch and is similar in operation to the Bell Telephone picture phone. An interesting point is that due to the high detector density, the diodes are sampled via an electron beam rather than through leads physically connected to them. This is a non-storage data handling system and is a framing rather than a scanning device. A similar system employing a "tape recording camera" was also mentioned. This system employs, as the recording medium, a silicon coated stainless steel tape. This tape is erasable and used much like standard video recording tape. It provides a much greater packing density than magnetic tape, however.

The system described as the one most likely to fly has a built in information storage capability and utilizes existing ground receiving and image reconstruction equipment. The terrain image is photographed by a film record as in our present systems. The exposed film is then bimat processed on orbit, the resulting negative is laser scanned, the information digitized, and the results transmitted to the tracking station for recording and/or reconstruction. The system presently being built is expected to produce a resolution of 120 1/mm.

All of the briefings were somewhat sketchy in general scope, probably for security reasons, but broad enough to give a general feel for the types of intelligence systems which are under development. A set of prints made from the viewgraphs presented has been requested and will be added to this paper upon receipt.

3. The short ARGO business meeting is recapped as follows.

Since both NASA, Rome AFB, and Wright Patterson AFB have U-2s available for ARGO use, it was suggested that requests for coverage be channeled to these agencies rather than the NRP. The reminder came that NASA's U-2s are committed to ERTS simulation and not available for other uses.

felt, however, that ARGO requests could still influence the use of the aircraft when and if available. 25X1

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SUB	JECT: Steerin	ng Committee/AR	GO Meeting, 2	26 May 1971	
	•			·	•
	ARGO be conti an uproar fro ERTS-A is a t avenue of con	ioned that the the first ERTS inued for only on the group an test system and mmunication, as rough ARGO chand.	flies. The sahout another determined the group nesistance, and	suggestion that year or so be was reminded eds the present resources no	t the rought that nt w
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## UNITED STATES DEPARTMENT OF AGRICULTURE

AGRICULTURAL RESEARCH SERVICE

WASHINGTON, D.C. 20250

OFFICE OF ADMINISTRATOR

October 7, 1971

An animal disease eradication program involving the slaughter and disposal of carcasses would make use of burial pits and burning pyres during the active part of the campaign. Depending upon the number of animals involved, these could be quite numerous and large. For example, in the 1967-68 outbreak in England, it was not uncommon to build a burning pyre 100 yards in length. As you might readily imagine, this creates a large fire visible for great distances. Disposal pits would be less obvious, but could also be visible.

After a program has been completed, you would expect a period of inactivity relating to livestock species involved. For example, a swine feeding operation containing 30,000 animals should be quite obvious and following an eradication program would be conspicuous by the lack of animals contained in the facilities. Also, disposal pits in the vicinity of a large feeding operation would still be visible as a fresh mound of dirt during the post-eradication program.

Usually the location of burning pyres would be raked and seeded over to restore the natural turf and within a very short period of time would not be visible.

The absence of livestock vehicles along the highways would be expected in the post-cradication program since quarantine measures would still be in effect and the premises are not being restocked for a considerable period of time.

Slaughterhouse operations may continue to be in operation for species not involved; for example, slaughtering of cattle would continue in the area where an African swine fever eradication program has taken place; however, there may be slaughterhouses devoted to swine only which would be inactive.

These are a few of the points which we might consider in evaluating recent information obtained.

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IEG-242/71 28 September 1971

MEMORANDUM FOR:

Office of Science and Technology Executive Office of the President

SUBJECT

African Swine Fever-Cuba

RRFERENCE

PIC Project 251172

1. In response to a request by formerly of your office, the National Photographic Interpretation Center (NPIC) has searched recent photography of Cuba for evidence of African swine fever. No evidence of such activity was detected.

- 2. Twelve OLD HEAD missions, flown between 28 April and 14 September, which covered 90 percent of the western provinces of Cuba, (Pinar del Rio, Havana, and Matanzas) were carefully searched. Two large hoggeries and several smaller hoggeries as well as three slaughter houses were studied. Activity at each of these appeared to be normal.
- 3. The swine fever epidemic reportedly reached its peak in Havana Province during the early part of July 1971. OLD HEAD missions did not cover Havana Province between 15 June 1971 and 4 August 1971. Coverage of Havana Province on 5 August, 20 August, and 14 September 1971 (the most recent) revealed no activity related to the reported African swine fever epidemic.

Chief, Imagery Exploitation Group, NPIC

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GROUP 1 Excluded from automatic downgrading and declassification

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1EG-271/71 2 November 1971

NEMORALDUM FOR:

Office of Esience and Technology Executive Office of the President

SUPJECT

: African Swine Fever - Cuba

REFLIENCE

: NFIC Project 251172

l. In response to your query of October 20, 1971: I would like to ascure you that the indicators hald forth in 7 October letter to taken into account in our response to your initial request.

- 2. The most obvicus indicators, and the first considered, were the burial pits, buring pyres, inactivity related to livestock (hoggeries, feeding pans, pastures), and fresh mounds of earth (covered burial pits). Also considered were the less obvious indicators such as acceivity at slaughterhouses and the movement of stock trucks.
- 3. Unfortunately, as reported in our response to the original request, we did not have photographic coverage of Havana Province during the early part of July 1971, the reported peak period of the epidenic. But all coverage between 28 April and 14 September was carefully searched. No evidence of a large scale animal eradication program was detected.



Chief, Imagery Exploitation Group

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